DEPARTMENT OF THE NAVY FY 1997 BUDGET ESTIMATES



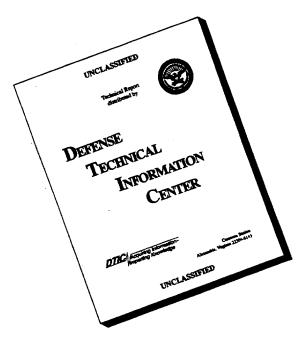
JUSTIFICATION OF ESTIMATES MARCH 1996

WEAPONS PROCUREMENT, NAVY BUDGET ACTIVITY 5

19960503 063

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UNCLASSIFIED

Department of the Navy

FY 1997 Procurement Program

Exhibit P-1

DATE: 03/06/96	
Navy	
APPROPRIATION: 1507N Weapons Procurement,	
APPROPRIATION:	

APPROPRIATION: 1507N Weapons Procurement, Navy					DATE: 03/06/36
	1 1 1 1 1 1 1 1 1 1	: 	MILLIONS	F DOLLARS	
LINE NO ITEM NOMENCLATURE	IDENT	(DOLLARS) FY 1997 UNIT COST	QUANTITY COST	QUANTITY	COST
BUDGET ACTIVITY 05: Ammunition					
Air Launched Ordnance					
36 5145 General Purpose Bombs	<				27.2 U
37 5150 2.75 Inch Rockets	«				9.4 U
38 5155 Machine Gun Ammunition	∢				5.3 U
39 5160 Practice Bombs	«				11.1 U
40 5180 Cartridges & Cart Actuated Devices	< 1				, 21.9 U
41 5181 Aircraft Escape Rockets	~				8.2 U
42 5182 Air Expendable Countermeasures	<				22.0 U
43 5184 Marine Location Markers	<				η 9.
44 5194 JATOS	~				4.2 U
Ship Ordnance					
45 5250 5 Inch/54 Gun Ammunition	< .				13.5 U
46 5265 76mm Gun Ammunition	«				2.7 U
47 5270 Other Ship Gun Ammunition	<				4.1 U
Other Ordnance					
48 5335 Small Arms & Landing Party Ammo	∢				3.1 U
49 5340 Pyrotechnic and Demolition	∢				10.1 U
50 5350 Mine Neutralization Devices	<		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 4 3 4 4	5.8 U
TOTAL Ammunition					149.4
* ITEMS UNDER \$50,000		UNCLASSIFIED	0		PAGE N- 7

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Sections programmed Sections	Program and	Weapons Procurement, Navy Financing (in Thousands of		dollars)			
Transferred to other accounts 1995 ectual 1996 ect. 1997 ect. 1997 ect. 1997 ect. 1997		Budget Plan (ROCUREMENT		Obligations	
Direct program: 0.14,011 505,431 323,149 778,261 0.01ect program: 0.11,011 0.11,010		1995 actual	1996 est.	1997 est.	:	1996 est.	1997 est.
Definition Section S	Program by antivities						
10,000 124,914 110,000 124,914 110,000 120,0	5	674.011	505.433	323,149	778,261	546,563	392,923
Total direct program Total direct direct program Total direct pr		1.112.710	814,857	738,239	982,919	861,739	738,065
Other Ordance Spares and repair parts Cother Ordance Spares and repair parts Total direct program Total direct program Total direct program Total Total direct program Total Total direct program Total Total Reimbursable program Total Thancing: Offsetting collections from: Federal fundar: Thurk fundar: Truck fundar: Tru	Torpedoes and related equip	181.003	124,934	110,682	233,456	187,836	116,505
Other Ordnance 47,855 61,323 145,355 49,320 Sparce and repair parts 47,655 61,323 145,155 2207,812 1 Total direct program 2,102,467 1,548,700 1,400,363 2,207,812 1 Total Total 2,157,523 1,623,500 1,475,163 2,241,598 1 Total Total 2,157,523 1,623,500 1,475,163 2,241,598 1 Inancing: Offsetting collections from: 40,056 74,800 74,800 73,786 Federal funder: Inantinose: 1 40,056 74,800 74,800 77,800 Recovery of prior year budget plans 74,400 76,900 77,800 77,400 Reprograming from to prior year budget plans 74,400 64,963 2,500 9,253 Response to planse available: college recent to specific planse 9,253 2,500 9,253 Response available: college recent to specific planse 9,455 2,500 9,253 74,400 Response and blance available: college recent plan	Other weapons	86,880	42,155	31,467	103,503	35,217	33,071
Sparse and repair parts				149, 355	49,320	29,981	120,036
Total direct program		47,855	61,323	47,471	£ < £ , 0 9	5/5,08	O 40' VA
Total Tota		2,102,467	1,548,700	1,400,363	2,207,812	1,741,911	1,450,240
Total		55,056	74,800	74,800	33,786	96,070	74,800
Total Total Total Offsetting collections from: Federal funde(*) Trust funde(*) Trust funde(*) Frederal funde(*) From Federal acurcee(*) Recovery of prior year obligations Recovery of prior year budget plans For completions of prior year budget plans Reprograming from/to prior year budget plans For completions of prior year budget plans Available to finance available, end of year: For completions of prior year budget plans Available to finance available, end of year: For completions of prior year budget plans Available to finance explising Budget authority: Rudget authority: Appropriation rescluded (unob bal) Transferred from other accounts (*) Transferred from other accounts					962	100 100	
Offsetting collections from: Federal funds(-) Trust funds(-) Trust funds(-) Trust funds(-) Frederal funds(-) Frederal funds(-) Frederal funds(-) Recovery of prior year budget plans Available to finance mer budget plans Available to finance mer budget plans Reprograming from to prior year budget plans Reprograming from to prior year budget plans For completions of prior year budget plans Reprograming from to prior year budget plans For completions of prior year budget plans Available to finance available, end of year: For completions of prior year budget plans Available to finance authority Budget authority: Budget authority: Budget authority: Budget authority: Appropriation rescinded (unob bal) Transferred to other accounts (-) Transferred from other accounts		1.157.523	1,623,500	1,4/5,103	2,441,598	T167/50T	1,525,040
Probligated balance rear budget plans Available to finance new budget plans Available to finance new budget plans Reprograming from/to prior year budget plans Reprograming from/to prior year budget plans Unobligated balance transferred to other acco Unobligated balance transferred to other acco Unobligated balance expiring Available to finance subsequent year budget plans Available to finance subsequent year budget plans Available to finance expiring Budget authority Budget authority: Appropriation Appropriation Transferred from other accounts (-) Transferred from other accounts (-) Transferred from other accounts (-) Transferred from other accounts Transferred from other accounts Transferred from other accounts	Offsetting collections from: Federal funde(-) Trust funde(-) Non-Federal sources(-) Recovery of prior year obligations	-40.056 -15.000	- 74 , 800	-74,800	-33 -7,577 -15,000 -10,842	-74,800	-74,800
Available to limance her budget plans Reprograming from/re prior year budget plans Unobligated balance transferred to other acco Unobligated balance available, end of year: For completion of prior year budget plans Available to finance subsequent year budget blans Available to finance expiring Unobligated balance expiring Unobligated balance expiring Budget authority: Appropriation Appropriation Appropriation Transferred to other accounts Transferred from other accounts	Cor Completion of prior year budget pi				-904.672	-702,539	-488,058
Unobligated balance available, end of year: For completion of prior year budget plans Available to finance subsequent year budget Unobligated balance expiring Unobligated balance expiring Budget authority: Appropriation Appropriation Transferred to other accounts (-) Transferred from other accounts Transferred from other accounts Transferred from other accounts Transferred from other accounts	Available to timence new budget plans Reprograming from/to prior year budget Unobligated balance transferred to other		2,500		9,253	2,500	
Budget authority: Budget authority: Appropriation Appropriation rescinded (unob bal) Transferred to other accounts (-) Transferred from other accounts (-) Transferred from other accounts	รี รี	64,963	-		702,539 64,963 48,837	488,058	438,181
Budget authority: Appropriation Appropriation rescinded (unob bal) Transferred to other accounts (-) Transferred from other accounts Transferred from other accounts		2,054,667	1,486,237			1,486,237	1,400,363
	2	2,123,667	1,656,193 -14,600 -185,174 29,818	1,400,36	2,123,667	1,656,193 -14,600 -185,174 29,818	1,400,363
2,054,667 1,486,237 1,400,363 2,054,667	æ	2,054,667	1,486,237	1,400,363	2,054,667	1,486,237	1,400,363

			Rudget Plan (amounts for PROCUREMENT actions programed)	Plan (amounts for Pactions programed)	ROCUREMENT		Obligations	
Ident 1ft	Identification code	17-1507-0-1-051	1995 actual 1996 est.	1996 est.	1997 est.	1005 actual 1996 est. 1997 est. 1995 actual	1995 actual 1996 est. 1997 est.	1997 est.
•	eletion of ob	Pelation of obligations to outlays		•			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
71.0001	71.0001 obligations incurred	Incurred				2,218,988	1,763,181	1,450,240
	Ordere on he	Orders on hand, SOY				-124,317	-80,181	
1001.77	obligated be	lance, start of year				5,376,532	4,183,692	3,220,602
1001	orders on ha	lad, EoY				80,181		
1000	opligated be	obligated balance, end of year				-4,183,692	-3,220,602	-2,653,998
1000.77	Ad Just ment e	in expired accounts (net)				10,756		
1000 8/	Adjustments	in unexpired accounts				-10,842		
	٠							
1000 06	Outlays (net)	(net)				3,367,606	2,646,090	2,016,844

Meapons Procurement, Navy Object Classification (in Thousands of dollars)

00 MAR 496

Ident 1f	Identification code 17-1507-0-1-051 1996 est.	1995 actual	1996 est.	1997 est.
125 101	Direct obligations:	39,826	32,116	31,477
125 103 126.001 131.001	Purchases goods/services (inter/intra) fed accounts Purchases from revolving funds Supplies and materials Equipment	124,311 70,316 1,973,359	102,191 98,121 1,509,483	93,585 77,742 1,247,436
199.001	199.001 Total Direct obligations	2,207,812	1,741,911	1,450,240
226.001	Reimbursable obligations: 226.001 Supplies and materials 231.001 Equipment	33,786	42,532	21,900 52,900
299.001	299.001 Total Reimbursable obligations	33,786	96,070	74,800
106.901	999.901 Total obligations	2,241,598	1,837,981	1,525,040

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- • • • •			Rudget Plan	Audget Plan (amounts for PROCUREMENT actions programed)	PROCUREMENT		Obligations	
Ident 1f	Identification code 17-1508-0-1-05	17-1508-0-1-051	1995 actual	1996 est.	1997 est.	1995 actual	1996 est.	1997 est.
00 0101	Program by activities: Direct program Proc Amno, Navy Proc Amno, MC	it ten: iavy ic	274,782	217,183		187,412	227,373	66,557
1016.00	Total direct program	program	407.946	416,073		309,571	380,747	101,094
010.10	Reimbursable program	orogram		10,000			4 4 4 2 4	
10.0001	Totel		407,946	426,073		309,571	380,747	101,094
11.0001	Financing: Offsetting collect Federal funds(*)			-10,000			-10,000	
21 . 4002		Unobligated balance available, start of year: For completion of prior year budget plans Available to finance new budget plans		-6,900			-98,375	-143,701
24 . 4003		obligated balance available, end of year: For completion of prior year budget plans Available to finance subsequent year budget	006.9			98,375	143,701	42,607
1000 60	Budget authority	thority	414.646	409.173		414,846	409,173	
40.0001 41.0001	. 2	dget authority: Appropriation Transferred to other accounts (-)	414,846	430,053		414,846	430,053	
43.0001	Approprie	Appropriation (adjusted)	414.046	409,173		414,846	409,173	
71.0001 72.4001 74.4001	Relation of obligation Obligations incurred Obligated balance, a Obligated balance,	Relation of obligations to outlays: Obligations incurred Obligated balance, start of year Obligated balance, end of year			7	309,571	370,747 111,518 -187,526	101,094 187,526 -136,488
90.0001	Outlays (net)	net)				198,053	294,739	152,132

Identification code 17-1508-0-1-051	Identification code 17-1508-0-1-051	1995 actual 1996 est.	1996 est.	1997 est.
Direct obligations			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	: : : : : :
	Purchases goods/services (inter/intra) fed accounts			
125 10) Purchases	Purchases from revolving funds	270,175	331,014	87,024
131 001 Equipment		39,396	49,733	14,070
				1 1 1 1 1 1 1 1 1 1
199.001 Total Direct obligations	t obligations	309,571	380,747	101,094
,				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
999.901 Total obligations	stions	309,571	380,747	101,094

		Pro	curement of	Procurement of Amenition, Navy & Marine Corps (Rescission Proposal)	avy & Marine	Corps			00 MAR 96
			am and Finan	Program and Financing (in Thousands of dollars)	sands of doll	ars) SUPPL	SUPPLEMENTAL		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
•				Budget Plan (amounts for PROCUREMENT actions programed)	Plan (amounts for Pactions programed)	ROCUREMENT		Obligations	
Ident 1f	Identification code	17-1500-5-1-051	:	1995 actual	1996 est.	1997 est. 1995	1997 est. 1995 actual	1996 est.	1997 est.
10.0001	Program by activities: 0.0001 Total				-10,000			-7,500	-1,500
21.4002		Unobligated balance available, start of year: For completion of prior year budget plans	t of year:						2,500
24.4002		salance available, end :lon of prior year budg	or year: jet plans					-2,500	-1,000
40.3501	Budget author	40,3501 Budget authority (Appropriation rescinded)	scinded) (ropriation rescinded) (-10,000		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	-10,000	
71.0001	Relation of ob-	Relation of obligations to outlays: Obligations incurred						-7,500	-1,500
72.4001	Obligated ba	72.4001 Obligated balance, start of year 74.4001 Obligated balance, end of year						2,730	1,830
90.0001	Outlays (net)	(000)							
:									

00 MAR 96

Procurement of Ammunition. Navy & Harine Corps (Rescission Proposal)
Object Classification (in Thousands of dollars) SUPPLEMENTAL

Identification code	Identification code 17-1508-5-1-051 1996 est. 1997 est.	1995 actual	1996 est.	1997 est.
Direct obligations: 131.001 Equipment	lone:	, , , , , , , , , , , , , , , , , , ,	-7,500	-1,500
199.001 Total Direct obligations		• • • • • • • • • • • • • • • • • • •	-7,500	-1,500
999.901 Total obligations			-2,500	-1,500

Comparison of FY 1996 Program Requirements as Reflected in the FY 1996 Budget with FY 1996 Program Requirements as Shown in FY 1997 Budget (In Thousands of Dollars)

nents or Decrease (+)	-15,120	-24,896	34 +6,250	55 -1,246	3* +16,473	23 –2,699	00 -238,421	- 00	-238,421
FY 1996 Program Requirements Per FY 1997 Budget	505,431	814,857	124,934	42,155	217,183*	61,323	1,548,700	74,800	1,623,500
FY 1996 Total Program Requirements	520,551	839,753	118,684	43,401	200,710	64,022	1,787,121	74,800	1,861,921
ď	Ballistic Missiles	Other Missiles	Torpedoes and Related Equipment	Other Weapons	Ammunition	Spares and Repair Parts	Subtotal Direct Program	Reimbursable	Total Fiscal Year

. Ballistic Missiles (-\$15.1 million)

Decrease reflects Congressional undistributed and inflation reductions (-\$4.2 million) and revised inflation rates and other minor pricing adjustments (-\$10.8 million).

2. Other Missiles (-\$24.9 million)

million), revised inflation rates and other minor pricing adjustments (-\$17.5 million) and other Changes include Congressional adjustments to AMRAAM (-\$4.2 million), Tomahawk (-\$41.7 million), Adjustments also include Congressional undistributed general and inflation reductions (-\$7.5 Harpoon (+\$40.0 million), Tomahawk Mods (+\$49.3 million) and Weapons Industrial Facilities (\$+30.0 million). A DoD adjustment to the Standard Missile program (-\$104.0 million) also accounts for part of the change. A reprogramming for the Global Broadcast System (+\$59.0 million) was partially offset with funding from Tomahawk (-\$5.2 million), Fleet Satellite Communications (-\$21.0 million), AMRAAM (-\$1.6 million) and Sparrow Mods (-\$1.3 million) minor below threshold reprogrammings.

. Torpedoes and Related Equipment (+56.3 million)

million), adjustments for Congressional undistributed general and inflation reductions (-\$1.0 Changes include a Congressional increase to procure additional Vertical Launch ASROC (+\$10.0 million) and revised inflation rates and other minor pricing adjustments (-\$2.7 million).

. Other Weapons (-\$1.2 million)

Changes include adjustments for Congressional undistributed inflation reductions (-\$.3 million), revised inflation rates and other minor pricing adjustments (-\$.9 million).

. Ammunition (+\$16.5 million)

Ammunition (+\$14.5 million). Adjustments also include a Congressional decrease to General Purpose Bombs (-\$3.1 million) and revised inflation rates and other minor pricing adjustments Changes include Congressional increases for additional procurement of Laser Guided Training Rounds (+\$7.8 million), Airborne Expendable Countermeasures (+\$2.0 million), and 5"/54 Gun \$4.7 million). *Funding transferred to Procurement of Ammunition, Navy and Marine Corps appropriation in FY 1997 budget submission.

Spares & Repair Parts (\$-2.7 million)

Changes include adjustments for Congressional undistributed inflation reductions (-\$.5 million), revised inflation rates and other minor pricing adjustments (-\$1.3 million) and minor below threshold reprogrammings (-\$.9 million).

Comparison of FY 1996 Financing as Reflected in the FY 1996 Budget with FY 1996 Financing as Shown in FY 1997 Budget (In Thousands of Dollars)

	FY 1996 Financing Per FY 1996 Budget	FY 1996 Financing Per FY 1997 Budget	Increase (+) Decrease (-)
Program Requirements (Total) Program Requirements (Direct) Program Requirements (Reimb)	1,861,921 (1,787,121) (74,800)	1,623,500 (1,548,700) (74,800)	-238,421 (-238,421) (0)
Less: Anticipated Reimbursements	74,800	74,800	ı
Add: Unob bal avail, start of year to finance new budget plans: Unob bal transf to other accts	1	-64,963	-64,963
Appropriation Adjusted	1,787,121	1,486,237	-300,884
Budget Authority: FY 1996 DoD Appropriations Act Appropriation rescinded Transferred from other accts Transferred to other accounts	1,787,121	1,656,193 -14,600 29,818 -185,174	-130,928 -14,600 +29,818 -185,174
Appropriation (Adjusted)	1,787,121	1,486,237	-300,884

Explanation of Changes in Financing

funding to the Procurement of Ammunition, Navy and Marine Corps appropriation (-\$200.7 million), reductions for Congressional undistributed general and inflation reductions (-\$16.6 million), revised inflation rates (-\$33.3 million), transfers to other accounts (-\$185.2 million), transfers from other accounts (+\$29.8 million) and various Congressional adjustments to the The \$300.9 million change in program financing is the result of the transfer of ammunition appropriation during their review of the budget. THIS PAGE LEFT INTENTIONALLY BLANK

Comparison of FY 1995 Program Requirements as Reflected in the FY 1996 Budget with FY 1995 Program Requirements as Shown in FY 1997 Budget (In Thousands of Dollars)

	FY 1995 Total Program Requirements Per FY 1996 Budget	FY 1995 Total Program Requirements Per FY 1997 Budget	Increase (+) or Decrease (-)
Ballistic Missiles	674,011	674,011	ı
Other Missiles	1,102,436	1,112,718	+10,282
Torpedoes and Related Equipment	183,743	181,003	-2,740
Other Weapons	71,176	86,880	+15,704
Ammunition	279,582*	274,782*	-4,800
Spares and Repair Parts	52,039	47,855	-4,184
Subtotal Direct Program	2,083,405	2,102,467	+14,262
Reimbursable	74,800	55,056	-19,744
Total Fiscal Year	2,158,205	2,157,523	-682

. Ballistic Missiles No change.

2. Other Missiles (+\$10.3 million)

appropriation to complete testing of ITALD. Adjustments were also made for minor below Change reflects reductions to Tomahawk (-\$4.1 million), AMRAAM (-\$1.1 million), Aerial \$12.8 million was approved (Net change +\$37.9 million). Funds were reprogrammed from Targets (-\$2.3 million) and Ordnance Support Equipment (-\$2.0 million) to fund the FY program on the Omnibus Reprogramming to fund emergent requirements, only a reduction Adjustments were also made for Congressional rescissions Drones and Decoys (-\$2.5 million) to the Research, Development, Test and Evaluation Of the \$50.7 million offered from the Tomahawk from the Tomahawk (-\$10.0 million), Harpoon (-\$2.4 million) and Ordnance Support Equipment (-\$2.2 million) programs. threshold reprogramming actions. 1995 Ship Cost Adjustment.

3. Torpedoes and Related Equipment (-52.7 million)

Change reflects minor below threshold reprogrammings.

. Other Weapons (+\$15.7 million)

Change reflects reprogramming actions for cancelled account adjustments and for prior year deficiencies.

5. Ammunition (-\$4.8 million)

Change reflects a reprogramming from the Shipboard Expendable Countermeasures program in support of the FY 1995 Ship Cost Adjustment (SCA) (-\$4.8 million). *Funding in Procurement of Ammunition, Navy and Marine Corps appropriation.

6. Spares & Repair Parts (-\$4.2 million)

Change reflects minor below threshold reprogrammings.

016B

Comparison of FY 1995 Financing as Reflected in the FY 1996 Budget with FY 1995 Financing as Shown in FY 1997 Budget (In Thousands of Dollars)

<u>г.</u>	FY 1995 Financing Per FY 1996 Budget	FY 1995 Financing Per FY 1997 Budget	Increase (+) Decrease (-)
Program Requirements (Total) Program Requirements (Direct) Program Requirements (Reimb)	2,158,205 (2,083,405) (74,800)	2,157,523 (2,102,467) (55,056)	-682 (+19,062) (-19,744)
Less: Anticipated Reimbursements	74,800	55,056	-19,744
Add: Unob bal avail, start of year to finance new budget plans Unob bal avail, end of year	-69,000	-74,400	-5,400
to finance subseq yr budget plans Reprog, prior year budget	84	64,963 -38,363	+64,963 -38,363
Appropriation Adjusted	2,014,405	2,054,667	+40,262
Budget Authority: FY 1995 DoD Appropriations Act	2,159,080	2,123,667	-35,413
Reduct Pursuant to P. L. 103-335 Transferred to other accounts	5 -15,160 -129,515	-69,000	+15,160 +60,515
Appropriation (Adjusted)	2,014,405	2,054,667	+40,262

Explanation of Changes in Financing

The \$40.3 million change in program financing is the result of sources transferred out to finance the FY 1995 Ship Cost Adjustment (-\$9.5 million), Congressional rescissions (-\$14.6 million), the Omnibus Reprogramming action funding emergent DOD requirements and adjustments to reflect actual reimbursements earned.

							DATE	
MP.	WPN BUDGET	ITEM J	JSTIFICAT	TEM JUSTIFICATION SHEET			March 1996	1996
APPROPRIATION/BUDGET ACTIVITY	/ITY			P-1 ITEM NOMENCLATURE	ENCLATURE			
WPN/B.A. 5 - Ammunition				General Purpos	General Purpose Bombs (Y1Q2)/(Y5Q2) PEO(T))/(Y5Q2) PEO(7	(
	FY	۲ 95*	FY 96*	FY 97	FY 98	FY 99	FY 00	FY 01
Quantity								
Cost (\$M)		55.1	42.1	27.2	. 12.0	32.5	35.2	34.2

GBU-24/BLU-109: Operation Desert Storm revealed an urgent USN/USMC requirement for a 2000lb moderate to hard target penetrator weapon. Based upon Operational Requirements submitted by the fleet CINCs, a product improvement program was initiated PBXN-7 booster and lead) and FZU-32 arming unit. The FMU-143E/B fuze and BLU-109 warhead transitioned to the Single Manager for Conventional Ammunition in FY 95. approximately 535lbs of PBXN-109, a GBU-24 guidance and control unit, an FMU-143E/B tail fuze (with a less IM sensitive to provide the USAF GBU-24/BLU-109 to the Fleet. The USN version consists of a 2000lb class warhead filled with

Product Improvement Program (PIP): DSU-33: FY 97 represents a one time buy of this proximity fuse. PIP efforts, funded in FY 95 through FY 96, will improve and qualify this fuze which will be used by both Navy and Air Force. This procurement satisfies the Navy's requirements for a fuse to detonate over land and water at a predetermined height.

In FY 97, the MK-83 Conical Fins and BSU-33 are procured to replace Non-combat expenditures, maintain war reserve, and to support both live and inert 500 lb training. PES/ILS: The FY 97 production engineering support (PES) and Integrated logistics support (ILS) are continuing efforts in support of the readiness; audits, pre-award surveys, post award surveys, post award conferences, First Article Testing or any other technical problems procurement of GP bombs to include the GBU-24 Hard Target Penetrator and numerous ancillary components. These efforts include providing recommendations and assisting in rapid resolution of maintenance procedure discrepancies to achieve optimum asset which may arise. These funds are provided in parallel with the FY 97 buy of end items.

* In FY 1995/96, this program is funded in the Procurement of Ammunition, Navy and Marine Corps BA-1 appropriation

EXHIBIT P-40

UNCLASSIFIED CLASSIFICATION

PAGE NO

ITEM NO

P-1 SHOPPING LIST

3/25/96

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			97	TOTAL COST	2,600	0 0 0 0 0	14330	359	(188)	(1/1)	(1,215)	(1,083)	100	100	200	0	27,150		
1996			FY 97	QTY TOI	18,663		8,081 0000	000,											
March 1996			FY 96	TOTAL COST	2,231	35,032	5 0	350	(200)	(150) 1 868	(1,590)	(278)	2,519		112	0	42,112		
DATE			Ē	QTY TC	13,804	505								•					
		(Y5Q2)	FY 95	L COST	3,669	43,507	0 0	747	(315)	(432)	(2,833)	(1,642)	2,341	0 0	200	29	55,106		
NWC	ENCLATURE	se Bombs (Y1C	Œ	QTY TC	22,703	638													
BREAKDOWN	P-1 ITEM NOMENCLATURE	General Purpose Bombs (Y1Q2)/(Y5Q2)		TOTAL COST															
PROGRAM COST			두병	QTY							-								
GR.	Ł		DENT					: "											
PRO	APPROPRIATION/BUDGET ACTIVITY	WPN/B.A. 5 - Ammunition	EI EMENT OF COST	ELEMENT OF COO.	BSU-33 (F782)	Q2TBD MK-83 Conical Fins (F642) Q2170 GBU-24/BLU-109	DSU-33 Proximity Fuze	M72 Cables	ILS (GP Bombs)	ILS (GBU-24)	PES	PES (GBU-24)	hlp*	Non Standard Items	Renovation Components	Initial Training	TOTAL	*FY 95-96 PIP funding will be used to qualify the DSU-33 for Navy use.	
	APPRO	WPN/B.	COST	CODE	Q2010	Q21BD Q2170	Q2TBD	Q2890			Q2830		Q2850	Q2892	Q2893	Q2899			

P-1 SHOPPING LIST ITEM NO PAGE NO 36 2

UNCLASSIFIED CLASSIFICATION

EXHIBIT P-5A

IF YES, WHEN AVAIL March 1996 ARE SPEC REVISIONS REQUIRED 99 9 99 9 99 9 DATE AVAIL NOW? WHEN? YES YES YES YES YES YES YES YES YES General Purpose Bombs (Y1Q2)/(Y5Q2) SPECS 14,250.30 15,279.97 8,814.19 1,098.38 3,250.00 9,165.00 1,035.00 P-1 ITEM NOMENCLATURE UNIT WPN BUDGET PROCUREMENT HISTORY AND PLANNING 638 502 412 638 502 412 638 502 4 ΩT DELIVERY DATE OF FIRST SEP 96 SEP 97 SEP 96 SEP 97 98 96 97 SEP 95 36 NN SEP SEP MAR 96 AUG 96 SEP 95 AUG 96 SEP 95 AUG 96 CONTRACTED AWARD BY DATE MAR 95 MAY 95 JUN 94 HILL AFB ARMY ARMY SS/FPoption SS/FPoption CONTRACT AND TYPE METHOD SS/FP SS/FP SS/FP SS/FP C/FP C/FP C/FP TEXAS INSTRUMENTS TEXAS INSTRUMENTS TEXAS INSTRUMENTS TEXAS INSTRUMENTS TEXAS INSTRUMENTS *TEXAS INSTRUMENTS* Remarks *Unit cost does not include LAP dollars. HUNTSVILLE, AL) (SHERMAN, TX) SHERMAN, TX) CONTRACTOR AND LOCATION OCKHEED. APPROPRIATION/BUDGET ACTIVITY UNKNOWN UNKNOWN WPN/B.A. 5 - Ammunition **GBU-24 COMPONENTS Bomb Bodies** Q2170 BSU-84 AFG FISCAL YEAR Q2170 ADG-770/B LINE ITEM/ Hard Back Q2170 BLU-109 FY 94* FY 95 FY 96 FY 95 FY 96 FY 95 FY 96 FY 94 FY 94

CLASSIFICATION

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P-1 SHOPPING LIST ITEM NO. 36 PAGE NO. 3

UNCLASSIFIED CLASSIFICATION

					:				DATE	
	WPN BUDGET PROCUREMENT HISTORY AND PLANNING	ET PROCU	REMENT HI	STORY	AND PLA	NIN	Ŋ		March 1996	966
APPROPRIATION/BUDGET ACTIVITY	WITY				P-1 ITEM NOMENCLATURE	MENCL	ATURE			
MPN/B A - Amminition					General Purpose Bombs (Y1Q2)/(Y5Q2)	ose Bor	1bs (Y1Q2)/(Y5Q2)		
LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY QTY	ΥTC	UNIT	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED	IF YES, WHEN AVAIL
GBU-24 COMPONENTS (Con't)										
Q2170 <u>WGU-39/B G&C UNIT</u> FY 94	TEXAS INSTRUMENTS	SS/FP	HILL AFB	MAR 95	SEP 95	412	37,629.00	YES	O _Z	
FY 95 FY 96	(SHEKMAN, 1X) TEXAS INSTRUMENTS TEXAS INSTRUMENTS	SS/FP HILL AFB	HILL AFB HILL AFB	SEP 95 AUG 96	SEP 96 SEP 97	638 502	41,839.39 42,089.46	YES	0 0 2 0	
Q2170 <u>FMU-143 E/B FUZE(F849)</u> FY 94	DAYRON, INC	SS/FP	EGLIN AFB	JUN 94	SEP 95	564	3,057.37	YES	ON	
FY 95 FY 96	(OKLANDO, FL) DAYRON, INC DAYRON, INC	SS/FP SS/FP	ARMY ARMY	SEP 95 AUG 96	SEP 96 SEP 97	638 502	2,188.30 2,325.12	YES	0 0 0 0	
			·	<u> </u>						
Remarks:										

P-1 SHOPPING LIST ITEM NO. 36 PAGE NO. 4

EXHIBIT P-5A

		WPN B	UDGET PI	WPN BUDGET PROCUREMENT HISTORY AND PLANNING	NT HIS	TORY AN	ID PLA	NING		DATE March 1996	966
APPRO	APPROPRIATION/BUDGET ACTIVITY	СТІИІТУ				P-1 ITEM NOMENCLATURE	OMENCLA	TURE			
WPN/B.	WPN/B.A Ammunition					General Purpose Bombs (Y1Q2)/(Y5Q2)	ose Bom	3s (Y1Q2)/(Y5Q2)		
	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED , BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY C	UNIT	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED	IF YES, WHEN AVAIL
Q2010	BSU-33 (F782) FY 95 FY 96 FY 97	UNKNOWN UNKNOWN UNKNOWN	C/FP C/FP C/FP	ARMY ARMY ARMY	MAY 96 MAY 96 MAY 97	FEB 97 FEB 97 FEB 98	22,703 13,804 18,663	161.61 161.61 139.31	YES YES YES	9 00 2 22	
Q2TBD	Q2TBD MK-83 Conical Fins (F642) FY 97 UNK	-642) UNKNOWN	C/FP	ARMY	MAR 97	OCT 98	19,798	326.04	YES	O _N	
TBD	<u>DSU-33</u> FY 97	UNKNOWN	C/FP	EGLIN	26 NOC	DEC 97	8,081	1,799.00	YES	O _N	
TBD	<u>M 72 Cables</u> FY 97	UNKNOWN	C/FP	AMCCOM	JAN 97	FEB 97	8,000	50.00	YES	O _N	
Remarks:	.;;										

<u>UNCLASSIFIED</u> CLASSIFICATION

P-1 SHOPPING LIST ITEM NO. 36 PAGE NO. 5

EXHIBIT P-5A

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FY 96/97 BUDGET PRODUCTION SCHEDULE	JUCTIC	S NO	ХЖЕ	DULE	P-1 TE	EM NOMENCLATURE GENERAL PURP	ENCLA 3ALP	TURE	SE BC	em nomenclature GENERAL PURPOSE BOMBS (Y1Q2)/(Y5Q2) P-1 #36	Y1Q2)/	(Y5Q2) P-1	#36			DATE			Ξ	March 1996	966			
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PAGE 6

FY 96/97 BUDGET PRODUCTION SCHEDULE	7 BUD	GET	PRC) Jo	E	N S	품		щ			P-1 ITE	P-1 ITEM NOMENCLATURE GENERAL PUF	ENCLA	PUF	POS	 E BO	M NOMENCLATURE GENERAL PURPOSE BOMBS (Y1Q2)/(Y5Q2) P-1 #36	(γ1α	2)/(Y	502)	P-1#	#36			DATE				Mar	March 1996	96			
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P-1 SHOPPING LIST ITEM NO. 36

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Exhibit P-21 Production Schedule

Frontal Fron	FY 96/97 BUDGET PRODUCTION SCHEDULE	UCTIO	N SCH	EDULE	P-1 ITE	P-1 ITEM NOMENCLATURE GENERAL PURPOSE BOMBS (Y1Q2)/(Y5Q2) P-1	ENCLA	URPC	SE B	OMB	S (Y10	32)/(Y	(502)		#36		DATE	ш			March 1996	1996	(0)		
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ITEM NO. 36

Exhibit P-21 Production Schedule

. 96/97 BUD	FY 96/97 BUDGET PRODUCTION SCHEDULE	P-1 ITEM NOMENCLATURE GENERAL PURPOSE BOMBS (Y1Q2)/(Y5Q2) P-1 #36	DATE March 1996
ITEM/ MANUFACTURER/	FISCAL YEAR 1998	FISCAL YEAR 1999	FISCAL YEAR 2000
PROCUREMENT	CALENDAR YEAR 1998		CALENDAR YEAR 2000
YEAR	OCT NOV DEC JAN FEB MARAPRIMAY JUN JUL AUGSEP	OCT NOV DEC JAN FEB MARAPR MAY JUN JUL AUG SEP OCT NOV DEC	JAN FEB MARAPR MAY JUN JUL AUG SEP LATER
BSU-33 (F782) (TH)			
FY 95 Unknown	1.9 1.9 1.9 1.8		
FY 96 Unknown	1		
FY 97 Unknown	1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	1.6 1.6 1.6 1.1	
Mk 83 Conical Fin (TH)			
FY 97 Unknown		17 17 17 17 17 17 17 17 17 17 17 17 17 1	
DSU-33 (TH)			
FY 97 Unknown	0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.7 0.7 0.4	
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REMARKS			

Previous editions are obsolete.

DD Form 2445, JUL 87

P-1 SHOPPING LIST ITEM NO. 36

Exhibit P-21 Production Schedule

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UNCLASSIFIED CLASSIFICATION

						DATE	
	WEAP	WEAPONS PROCUREMENT, NAVY	T, NAVY	(DOD EX	(DOD EXHIBIT P-40)		
	BUDGET	BUDGET ITEM JUSTIFICATION SHEET	TION SHEET			March 1996	1996
NAVMAT FORM 7710 1							
BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE	MENCLATURE				
5. Ammunition		2.75" Rocket (Y1Q3)	t (Y1Q3)				
	FY-95*	FY-96*	FY-97	FY-98	FY-99	FY-00	FY-01
QUANTITY							
COST (\$M)	14.4	14.5	9.4	16.2	16.5	16.8	17.3

visible illumination, IR illumination and practice). These items are procured by the Army as Single Manager for The current 2.75" system is used on both rotary and fixed wing aircraft. The system consists of launchers (LAU-68 seven-tube and LAU-61 19-tube), rocket motor (MK 66 Mod 2) and a family of warheads (high explosive, smoke, Conventional Ammunition (SMCA) using Conventional Ammunition Working Capital Fund (CAWCF) standard prices.

Product Improvements address deficiencies in the safety, reliability and producibility of the 2.75 inch rocket Specific projects include: HERO safe igniter, Insensitive Munitions rocket motor compliance, and lightweight launcher feasibility study. system.

*NOTE: In FY 1995/96, this program is funded in the Procurement of Ammunition, Navy and Marine Corps BA-1 appropriation.

P-1 Shopping List Item No. 37 Page 1

EXHIBIT P-40 UNCLASSIFIED

UNCLASSIFIED CLASSIFICATION

APPROPRIATION	NO	PROGR4	MCOSTE	PROGRAM COST BREAKDOWN		(DOD EXHIBIT P-5)		Date		
Weapons Proc	Weapons Procurement, Navy									
BUDGET ACTIVITY	VITY	P-1 ITEN	NOMEN	P-1 ITEM NOMENCLATURE				SUBHEAD NO.		
BA-5 Ammunition	noille	2.75" R(2.75" ROCKETS						Y1Q3	
Cost Code	ELEMENT OF COST	DENT				(Total cost in thousands of dollars) FY-95 	ousands o F\	of dollars) 7-96	_	FY-97
			QTY	TOTAL COST	ΔΤΥ	TOTAL COST	QTY	TOTAL COST	αту	TOTAL COST
	:	,					000	90	0.71	063
Q3010	LAU-68 D/A Launcher (H122)	∢ <				ı ı	11.988	3000	17,331	313
Q3030	WIO-1/B warnead (nees)	< ∢			26.500	10,990	18,445	80	10,242	4,200
Q3070	M278 Warhead	< ∢			, '		2,000		2,000	1,644
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					144		150		133
Q3800 Q3800	Integrated Logistics Support					1,143		1,279		1,000
G3830	Product Improvement					1,716	_	1,310		1,000
G3630	NonStandard Items					40		40		40
03893	Benovation Comp. (Metal Parts)					09		09		09
03894	Gaaina					80		80		80
Q3899	Initial Training Packages					225		•		•
	TOTAL					14,398		14,502	•	9,433
_										
				1 Shonning List	ing tiet					

P-1 Shopping List Item No. 37 Page 2

<u>UNCLASSIFIED</u> CLASSIFICATION

		BUDGET I	BUDGET PROCUREMENT HISTORY & PLANNING	ISTORY &	PLANNING			DATE	March 1996	
APPROPRIATION/BUDGET ACTIVITY	ΤΥ				P-1 ITEM N	ITEM NOMENCLATURE	ZE	SUBHEAD NO:	10:	
Weapons Procurement, Navy /	BA-5 Ammunition				2.75 ROCKET	T (Y5Q3			Y103	23
		CONTRACT			DATE OF			SPECS	ARE SPEC	IF YES,
COST ELEMENT	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		UNIT	AVAIL	REVIS.	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	BY	DATE	DELIVERY	QTY	COST	MON	REQ'D?	AVAIL
Q3010 LAU-68 D/A LAUNCHER ((H122)									
	UNKNOMN	C/FP	AMCCOM	May 96	Jul 97	238	4455.20	YES	ON	
FY 97	UNKNOMN	C/FP	AMCCOM	May 97	Jul 98	251	3832.55	YES	ON	
03030 WTU-1/B (H663)										
FY 96	UNKNOMN	C/FP	AMCCOM	May 96	Jul 97	11,988	25.05	YES	ON	
FY 97	UNKNOMN	C/FP	AMCCOM		Jul 98	17,331	0.	YES	ON	
,										
Q3040 MK 66 MOTORS (HA03)										
FY 95	NI	C/FP	AMCCOM	Nov 95	Feb 97	26,500	414.71	YES	ON	
94 94	(Burifigcon, VI)	, , , ,	NOODAK		701.1	0 7	7.00	5	(12	
	OINVINOMIN	C/FP	AMCCOM			T8,445	467.71	YES	SC	
7.6 ×.4	UNKNOWN	C/FP	AMCCOM	May 97	Jul 98	10,242	410.08	YES	ON	
Q3070 M278 WARHEAD										
FY 96	THIOKOL	C/FP	AMCCOM	May 96	Jul 97	2,000	798.00	YES	ON	
	(Crane, IN)									
FY 97	UNKNOMN	C/FP	AMCCOM	May 97	Jul 98	2,000	822.00	YES	ON	
THE THE PLANT OF STREET	2 x 1 2 th c].	7 F					
REMARKS: MZ/8 IS NAVY Priced. All other prices	d. All other pri	ces are ba	are based on AMCCOM prices provided 14 March 1996	f prices	provided 14	March 199	. 9			

P-1 Shopping List Item No. 37 Page 3

Exhibit P-5A UNCLASSIFIED

FY 1996/1997 BUDGET PRODUCTION SCHEDULE	NOI	 	DOLE			7	ITEN	N N	MENC 2	P-1 ITEM NOMENCLATURE 2.75" ROCKETS	URE ROC!	KET.	(n							DATE	ш								
	H	L	-						٦	FISCAL YEAR 1996	AL Y	EAR	1996	_			\vdash				띪	FISCAL YEAR 1997	¥.	AR ,	1997				٦
				ACCEP BA	ALANCE		CY 1995	95			S	LEN	CALENDAR YEAR	气	R 15	1996							SALE	ND/	AR Y	CALENDAR YEAR	1997	7	4
ITEM/MANUFACTURER/ PROCUREMENT YEAR	ш ~ >	я х У	PROC.	PRIOR TO	DUE AS OF 1 OCT	0 U F	z o >	дшО	7 4 Z	T 11 80	M A H	AGE	7 D Z	7 D Z	∢ ⊃ ७		о ы _е	z 0 >	0 11 0	7 4 Z	ш го	Σ∢α	АЧЯ	∑ ∢ ≻	7 D Z	ر 0 د	A D	லயட	⊢шŒ
Q3010-LAU-68 D/A LAUNCHER (H122)	2	z					-			-	H	_		Н	<u>. </u>														
FY 96-UNK	_	_	238		238								٧	_				_				_				8	20	20	178
FY 97-UNK		7	251	<u> </u>	251		-					_						-	_			_	_	۷					251
		_							_					_		_						_		_	\dashv				
Q3030-WTU-1/B WARHEAD (H663)		z					-	М		Н		\vdash			_	-				_		_							
FY 96-UNK		Ĺ	12	•	12								4			\dashv		_		_		\dashv	4	_		-	-	-	6
FY 97-UNK		-	17.3		17.3							_		\dashv				-	_			_		4	_				17.3
												-	\dashv	_	_	-		-	\dashv			_	_	_					
Q3040-MK 66 (HA03)		z								\dashv	-	-		-	\dashv	\dashv	\dashv	\dashv	_	_					_				
FY 93-BEI		2	28.9	12.6	16.3	3.1						4	4.8	4.8	3.6	\dashv	┥	4	_			_	_		_				ł
FY 95-LOCKHEED MARTIN		. 7	26.5		26.5		٨		\dashv		-	-	\dashv	_	\dashv	\dashv		\dashv		_	5.3	5.3	5.3	5.3	5.3	\downarrow			
FY 96-UNK		_	18.4		18.4					-	-		4		\dashv	-	\dashv	\dashv	_			_			_	1.5	1.5	1.5	13.9
FY 97-UNK			10.2	$ \cdot $	10.2			\dashv	\dashv	\dashv	-	-	\dashv	_	_		-	\dashv	4	4		\dashv	_	٨	_				10.2
		_						7				\dashv	-	\dashv	_	\dashv		\dashv	_			_	-	4	\downarrow				
Q3070-M278 WARHEAD (TBD)	_	z						7	\dashv	\dashv	\dashv	+	-	\dashv	\dashv	+	_		4	_		4	_	_	4	4			
FY 96-THIOKOL		-	2		2					-		1	4	\dashv	\dashv	\dashv	\dashv	-	4	_		4		4	\dashv	0.5	0.2	0.2	4.
FY 97-UNK			2		2				\exists	\dashv	\dashv	-	-	\dashv	-		-	\dashv	-		_	\dashv	_	۷	_				7
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	Ľ	RODUK	PRODUCTION RATES	ATES	REACHED	<u></u>					Æ	J J J	PROCUREMENT LEAD TIME	Ϊ́	EAD	Ħ							뿐	REMARKS:	ξŝ				
MANUFACTURER'S NAME AND LOCATION	MINIMUM SUST.	$oxed{oxed}$	1.8.5	MAXIMUM	å								AD	ADMIN LEAD TIME	111			MANU-	⇒		TOTAL	 F	<u>₹₽</u>	ead	time	s are	*Leadtimes are the same for all procurements.	sar	ne
H663-Wickline-Beauville, NC	2	┝	├-	120		_					L	ă	PRIOR	H		AFTER	Ī	FACTURING	JRING		AFTER	EB	ž	avy t	ouys	are (Navy buys are combined with	ined	with
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Burlington, VT		1		9		INITAL I	ال				+			+		ا ه	\dagger	 		\downarrow	[2]	,	2	ee E	M		to meet Min. Sust. Hates	ales	
N.		1				E E	SDEH SDEH	PHE.	ŝ	REORDER (PREVIOUS SOURCE)				+		<u>"</u>	┨	7	١	4	22		┨			ı		١	
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DD Form 2445, JUL 87

P-1 SHOPPING LIST ITEM NO. 37 Page 4

FY 1996/1997 BUDGET PRODUCTION	JDGET PRODU	CTIC		SCHEDULE	ng			P-1	P-1 ITEM NOMENCLATURE 2.75" ROCKETS	NON	M NOMENCLATI 2.75" ROCKETS	KET.	CURE S	[DATE	.									
		FISCAL Y	L YE,	EAR 1998	866						FISCAL YEAR 1999	ÄL	YEA	R 19	66				l		FISCAL YEAR 2000	Ä	YEA	R 20	8			
	CY 1997		S	NDA	RY	EAR	1998					CAL	CALENDAR YEAR 1999)AR	YEA	IR 15	66					5	Z Z	DAR	CALENDAR YEAR 2000	AR 2	000	۷
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Q3010-LAU-68 D/A LAUNCHER (H122)	H122)	_				+	_		\vdash	+-	₩		+-	-	+			+	+-	+			+	+	┿	+		
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FY 97-UNK						20 21	12	12	21 21	21	21	21	21 2	21 21	<u> </u>			\vdash		L			-		_	_		:
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Q3030-WTU-1/B WARHEAD (H663)	3)				Γ	+			+			T	+	+	-			╁	+	_			T	+	+	-		
FY 96-UNK	1 1 1 1 1 1	-	-	-	-	\vdash	igspace		+	L		T	+	+	_		T	╁	\vdash				\vdash		╁	╀		
FY 97-UNK						1.4 1.4	4 1.4	4.	1.4	1.4	1.5	1.5	1.5	1.5 1.5	10		T		╀	_			-	+				
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Q3040-MK 66 (HA03)						\vdash			_	_			\vdash	\vdash	L				┞	_					_	<u> </u>	_	
FY 96-UNK	1.5 1.5 1.5 1.5 1.5	5 1.6	1.6	1.6	1.6	-	_			_		Ĺ	\vdash	_	L				╀	L			H	+	-	_		
FY 97-UNK						0.8	8 0.8	9.0	0.8	8 0.9	6.0	0.9	0.9	0.9	-		T	╁	╀				\vdash	+	-	1		
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Q3070-M278 WARHEAD (TBD)							_		H	_		Г	\vdash	-	_		H	\vdash	<u> </u>	L.				<u> </u> -	┝			
FY 96-THIOKQL	0.2 0.2 0.2 0.2	2 0.2	0.2			_	_						\vdash	\vdash	ļ			\vdash					\vdash	-	H	L		
FY 97-UNK		<u> </u>	_			0.2 0.2	2 0.2	0.2	0.2 0.2	2 0.2	0.2	0.2	0.2	\vdash				╁╴	\vdash					-	 	ļ		
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	MFG NAME & LOCATION	ATIO	ZI				Z	MIN SUS		1-8-5	rΌl	~	MAX		리													
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	H663-WICKLINE-BEAUVILLE, NC J147-BEI-FT WORTH, TX	TH, T	Ť,	S Z				5.0 8.0		∓ઍ	10.4 50.0		120 250															
	HA03-LOCKHEED MARTIN-BURLINGTON, VT M278-THIOKOL-CRANE, IN	MARI RANE,	-N- -N- -N- -N- -N- -N- -N- -N- -N- -N-	JRLII	JGTC	Ž, Y		78D 78D		F F	9E 9E		題題															
DD Form 2445, JUL 87						άE	1 SH EM N	P-1 SHOPPIN ITEM NO. 37	NG L	IST Page 5	9.5														l			
)	,																	

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UNCLASSIFIED CLASSIFICATION

					(DOD EX	(DOD EXHIBIT P-40) DATE	DATE	
		WEAPONS	WEAPONS PROCUREMENT, NAVY	', NAVY				
	BU	DGET ITEN	BUDGET ITEM JUSTIFICATION SHEET	TON SHEET			March 1996	1996
NAVMAT FORM 77101								
BUDGET ACTIVITY 5.					P-1 ITEM NOMENCLATURE	ENCLATURE		
AMMUNITION					MACHINE GUN	MACHINE GUN AMMUNITION (Y1Q4)	(Y1Q4)	
	E.	FY-95*	FY-96*	FY-97	FY-98	FY-99	FY-00	FY-01
QUANTITY								
COST (\$M)		14.1	11.2	5.3	10.1	6.6	9.7	10.4

A11 20MM procurements of PGU-27/B (TP)(both bulk and linked cartridges). When employed in the bulk (linkless) condition these cartridges are used in the M61A1 gun systems in the F-14 and F/A-18 aircraft. When linked with the MK14 20MM ammunition includes ammunition is procured by the Army as Single Manager for Conventional Ammunition (SMCA) using Conventional link, these cartridges are used in the M197 gun system in the AH-1 aircraft and in the GPU-2A gun pod. This line funds procurement of ammunition used with various aircraft gun systems. Ammunition Working Capital Fund (CAWCF) standard prices.

(2) correct anomalies in PGU 20MM ammunition; (3) conduct feasibility determination for the design of an aluminum radiation safe primer to modify the M61/M197 gun systems to accept percussion or electrically primed ammunition; Funds requested for the Product Improvement Program (PIP) are required to: (1) restructure incorporation of a cartridge case; and (4) complete the PIP on PGU-33 and transition to Low Rate Initial Production including verification of technical data package (TDP).

In FY 1995/96, this program is funded in the Procurement of Ammunition, Navy and Marine Corps BA-1 appropriation.

P-1 Shopping List Item No. 38 Page

<u>UNCLASSIFIED</u> CLASSIFICATION

APPROPRIATION Weapons Procui	APPROPRIATION Weapons Procurement, Navy	PROGR4	M COST B	PROGRAM COST BREAKDOWN		(рор Ехнівіт Р-5)		Date		
BUDGET ACTIVITY	YIIY	P-1 ITEM	I NOMENCLATURE	LATURE				SUBHEAD NO.		
BA-5 Ammunition	ition	Machine	Gun Ammunition	nunition					Y1Q4	
		IDENT			(Total cost i	(Total cost in thousands of dollars)	f dollars)	•		
COST CODE	ELEMENT OF COST	SODE			iL.	FY-95		FY-96	L	FY-97
			ΩTY	TOTAL COST	ΔTV	TOTAL COST	ΔΤΥ	TOTAL COST	QTY	TOTAL COST
	20MM Ammunition	· · · · · · · · · · · · · · · · · · ·			1 610 050	909 0	1 074 000	900 9	442 950	9 175
Q4010 Q4030	20MM LINK TP, PGU-27/B (A772)	< ∢			240.900	1.371	25,100	170	153,400	1,005
Q4050	20MM PGU-28/B (A677)	< <			•	•	132,500	2,193		
	25MM Ammunition									
Q4150	25MM SAPHEI PGU-32 (A990)	∢		,	125,000	2,148		ŧ	1	ı
	Production Support Services					C		Ġ		Ç
Q4800 Q4830	Integrated Logistics Support Production Engineering Support					32 1204		1582 *		1201 *
Q4850	Product Improvement Program					625		1000		006
Q4894	Gaging					55	1			1
	TOTAL					14,081		11,234		5,341
	*Increase in PES is due to a technical engineering support contract with Raufoss of Norway for multi purpose ammunition	al engine	ering supp	ort contract with	Raufoss of N	orway for multi	purpose amm	unition		
	III lespouse to the 103-747 and previously displainted 1 do-2010 inishap investigation.	in dispos	pianied	do-20/0 mismap	"IVestigation"					

P-1 Shopping List Item No. 38 Page 2

UNCLASSIFIED CLASSIFICATION

								DATE		
		PROCUREN	PROCUREMENT HISTORY & PLANNING	& PLANNI	.NG					
B. APPROPRIATION/BUDGET ACTIVITY	[TY			P-1 ITEM	ITEM NOMENCLATURE	JRE		SUBHEAD NO:	; ₀	
Weapons Procurement, Navy / BA	BA-5 Ammunition			MACHINE	MACHINE GUN AMMUNITION	TON			Y104	
		CONTRACT			DATE OF		TINO	SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST	QTY	COST	AVAIL	REVIS	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	BY	DATE	DELIVERY			MOM	REQ'D	AVAIL
Q4010 20MM LINKLESS PGU-27/B	(A678)							i		
FY 95	LAKE CITY AAP	C/FP	AMCCOM	Feb 95	Apr 96	1,612,250	5.35	YES	ON ON	
	(Independence,	(OM								
FY 96	UNKNOMN	C/FP	AMCCOM	Apr 96	Apr 97	1,074,000	5.80	YES	ON	
FY 97	UNKNOMN	C/FP	AMCCOM	Apr 97	Apr 98	442,950	4.91	YES	ON	•
Q4030 20MM LINK, TP, PGU-27/B	(A772)									
FY 95	LAKE CITY AAP	C/FP	AMCCOM	Feb 95	Apr 96	240,900	5.69	YES	ON	
	(Independence,	MO)								
FY 96	UNKNOMN	C/FP	AMCCOM	Apr 96	Apr 97	25,100	92.9	YES	ON .	
FY 97	UNKNOWN	C/FP	AMCCOM	Apr 97	Apr 98	153,400	6.55	YES	ON	
Q4050 20MM PGU-28/B (A677)										
FY 96	UNKNOMN	C/FP	AMCCOM	Apr 96	Apr 97	132,500	16.55	YES	NO	
04150 25MM SAPHEI PGU-32 (A990)	. (06)				,					
FY 95	ALLIANT TECH	C/FP	CHINA LAKE	Dec 95	Dec 96	125,000	17.19	YES	NO	
	(Hopkins, MN)									
REMARKS: The FY 95 thru 97 p	thru 97 prices are based on	AMCCOM's	AMCCOM's prices provided 11 March 1996.	ded 11 Ma	arch 1996.					

P-1 Shopping List Item No. 38 Page 3

EXHIBIT P-5A UNCLASSIFIED

FY 1996/1997 BUDGET PRODUCTION SCHEDULE	NO S	CHED	ULE		P-1	TEMI	ITEM NOMENCLATURE MACHI	NCLA M.	TURE	ATURE MACHINE GUN AMMUNITION	N A	MMU	Į Ę	z				_	DATE	l								
									FISC	FISCAL YEAR 1996	AB 1	966				L				FIS	CAL	FISCAL YEAR 1997	1997				7	
, park	S		ACCEP	BALANCE	0	CY 1995	2			5	LEN	CALENDAR YEAR	(EAR	1996							O	CALENDAR YEAR	JDAR	YEA	1997ع	_	∢	
ITEM/MANUFACTURER/ PROCUREMENT YEAR	ш ж >	PROC.		DUE AS OF 1 OCT	0 D F	z o >	O III O	7 4 Z	T = 8		2 4 >	7 D Z	227	∢ ⊃ ʊ	ωшα	0 U F	z o >	ошо	¬ ∢ Z	т ш ю	2 4 C	A 9 E		ר ה ח	∀⊃ 5	ΩШσ	⊢шс	
Q4010-20MM LINKLESS PGU-27/B (A678)	z						\vdash	\vdash	\vdash	H					Ц	Ш							\dashv					
FY 95		1612.3		1612.3		-				134	4 134	134	134	134	134	134	134	134	134	134	138.3		\dashv	_	\dashv	-		T
FY 96		1074		1074			_	\vdash		٧												89.5	89.5	89.5 89.5	5 89.5	5 89.5	537.0	0
FY 97		£43	,	443				_	_													4	-			_	443.0	0
								Н	\vdash													_	\dashv		_	_	_	
Q4030-20MM LINK, TP, PGU-27/B (A772)	z								-		_		_	_							_		+			1		Т
FY 95		240.9		240.9				\parallel		20	20	20	20	8	8	8	8	2	20	20	20.9		-		+	_		
FY 96		25.1		25.1						A												2	2	2	2	7	13.	
FY 97		153.4		153.4																		٨	_	_	-	_	153.4	4
								\vdash	_			L		L	L									-	_	-		
Q4050-20MM PGU-28/B (A677)	z							_				_										\dashv			\dashv	-		
FY 92		2354.5	2258.4	96.1								96.1											\dashv	-	-	-		\neg
FY 96		132.5	-	132.5						٧												=	=	=	=	=	99	10
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										_													\dashv	+	-	_		
Q4150-25MM SAPHEI PGU-32 (A990)	z								\dashv		-		_	_									+		_	\dashv	_	
FY 91		51.2	2.5	48.7	22.5				98	26.2*			_								1	1	1	-	-	4	4	П
FY 95		125		125			A					-		-				10	10	2	٥	٤	P	2	10	2	52	
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DD Form 2445, JUL 87

P-1 SHOPPING LIST ITEM NO. 38 Page 4

FY 1996/1997 BUDGET PRODUCTION SCHEDULE	PROI)))	TOT	 SC	H	JUL	щ					<u> </u>	14 H	P-1 ITEM NOMENCLATURE MACHINE GUN AMMUNITION	MEN NE G	CLAT UN AI	URE	E	Į z					DATE	ш										
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DD Form 2445, JUL 87										l	P-1 S	P-1 SHOPPIN ITEM NO. 38	ទ្វ	LIST Page 5																					

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						DATE	
WPN BUDGET I	-	JUSTIFICA	TEM JUSTIFICATION SHEET	—		March	March 1996
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE	ENCLATURE			
WPN/B.A. 5 - Ammunition			Practice Bombs	Practice Bombs (Y1Q1)/(Y1Q5) PEO(T)	PEO(T)		
	FY 95*	FY 96*	FY 97	FY 98	FY 99	FY 00	FY 01
Quantity							
Cost (\$M)	12.7	18.6	11.1	30.1	34.3	38.6	40.1

upon impact. The BDU-48 simulates retard bombs. It is a 10 lb. thin cased cylindrical bomb with a breach hole for a MK4 or CXU-3 Signal. The BDU-45 NTP and MK 83 Inert are full-sized Practice Bombs. They are MK 80 series bomb bodies filled with an inert Practice Bombs are a low cost alternative to expenditures of live bombs for training. The MK 76 simulates an unretarded MK 80 series bomb. It is a 25 lb. cast iron shape with a breach hole for a MK 4 or CXU-3 signal which provides a smoke signal or flash cartridge for spotting location and simulates a 500 lb. GP Bomb. The BDU-45 is procured by the Army as a Single Manager material and have the same weight, size, center of gravity and ballistics of a live bomb. The BDU-45 uses a CXU-4 signal for Conventional Ammunition using Conventional Ammunition Working Capital Fund standard prices. Effective use of the PAVEWAY II Laser Guided Bombs (LGB) precision guided weapon requires close coordination between the aircrew the kinematics of LGBs to provide increased basic training capability and follow-on advanced tactics development; and is suitable for launch from all Navy and Marine Corps aircraft used to deploy LGBs. LGTR provides actual hardware for aircrew and tactics and the laser designator. Development of delivery options and multi-aircraft tactics require extensive cost effective training The congressionally directed procurement of the Laser Guided Training Round (LGTR) is capable of replicating development at a greatly reduced cost while maintaining LGB stockpiles.

(Procurement Data Packages), participation in post award conferences, first article and quality assurance testing; ECP review/comments/ The FY 97 Production Engineering Support and Integrated Logistics Support are continuing annualized efforts associated with ongoing procurements of the Practice Bombs associated Signal Cartridge, BDU-45/B and LGTR. These efforts include maintenance of PDP recommendations, technical manual update, evaluation of engineering change proposals, and response to fleet inquires.

* In FY 1995/96, this program is funded in the Procurement of Ammunition, Navy and Marine Corps BA-1 appropriation.

PING LIST PAGE NO

UNCLASSIFIED CLASSIFICATION

EXHIBIT P-40

P-1 SHOPPING LIST ITEM NO PAGE NO 39 1

3/25/06

	PROGRA	M CO	ST BRE	PROGRAM COST BREAKDOWN			DATE	March	March 1996	
APPROP	APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE	MENCLAT	URE				
WPN/B.A	WPN/B.A. 5 - Ammunition			Practice Bombs (Y1Q1)/(Y5Q1)	bs (Y1Q1)/(Y5Q1)				,
COST	ELEMENT OF COST	IDENT				FY 95		FY 96		FY 97
			αтγ	TOTAL COST	αтν	TOTAL COST	QTY	TOTAL COST	αту	TOTAL COST
Q1040	BDU 45/B (F017)						8,146	6,961	11,158	7,881
Q1300	Laser Guided Training Round	∢			1,785	10,000	1,393	7,805	0	0
Q1800	ILS					250		350		350
Q1830	PES					2,287		2,943		2,350
Q1850	dld	_				0		300		300
Q1894	Gaging				-	200		250		250
Q1899	Initial Training					0		0		0
	TOTAL					12,737		18,609		11,131
<u>.</u>										
				0	TO I CINIDACI IST					EXHIBIT P-5

P-1 SHOPPING LIST ITEM NO PAGE NO 39 2

UNCLASSIFIED CLASSIFICATION

				Ī					
	March 1996			IF YES, WHEN AVAILABLE					
DATE	Marc			ARE SPEC REVISIONS REQUIRED	YES	YES	YES	YES YES	
				SPECS AVAIL NOW? WHEN?	ES	ES	ËS	ES ES	
		JRE		UNIT A	854.48 YES	706.27 YES	3,789.00 YES	5,600.00 YES 5,600.00 YES	
	NNING	MENCLAT	lbs (Y1Q1)/(ατγ	8,146	11,158	2,500	1,785	
	AND PLA	P-1 ITEM NOMENCLATURE	Practice Bombs (Y1Q1)/(Y5Q1)	DATE OF FIRST DELIVERY	76 NUL	36 NOF	DEC 95	APR 97 APR 97	
	ISTORY /			AWARD DATE	APR 96	APR 97	MAY 95	SEP 96 SEP 96	
	PROCUREMENT HISTORY AND PLANNING			CONTRACTED BY	ARMY	ARMY	NAVY	NAVY NAVY	
				CONTRACT METHOD AND TYPE	SS/FP	SS/FP	SS/FP	SS/FP SS/FP	
	WPN BUDGET	ІТУ		CONTRACTOR AND LOCATION	MCALESTER, AAP	(MCALESTER, OK)* MCALESTER, AAP	G ROUND (LGTR) LORAL	(ARCHIBALD, PA) LORAL LORAL	
		APPROPRIATION/BUDGET ACTIVITY	WPN/B.A. 5 - Ammunition		[2]	FY 97	Q1300 LASER GUIDED TRAINING ROUND (LGTR) FY 94 LORAL	FY 95**	

UNCLASSIFIED CLASSIFICATION

REMARKS
*IMCO, Garland, Texas bomb bodies manufacturer; LAP at McAlester, OK.
*IMCO, Garland, Texas bomb bodies manufacturer; LAP at McAlester, OK.
**FY 1995/96 will be a combined buy to Loral. Unit Cost includes LGTR II and steel containers and represented PAVEWAY II.
**FY 1995/96 will be a combined buy to Loral. Unit Cost includes LGTR I with wooden containers and represented PAVEWAY II.

**FY 1995/96 will be a combined buy to Loral. Unit wooden containers and represented PAVEWAY II.

**PAY 1995/96 will be a combined buy to Loral.

**PAY 1995/96 will be a combined buy to Loral.

EXHIBIT

**IMCO, Garland, Texas bomb bodies which represents and represented PAVEWAY III.

EXHIBIT

**IMCO, Garland, Texas bomb bodies which represents and represented PAVEWAY II.

EXHIBIT

**IMCO, Garland, Texas bomb bodies which represents and represented PAVEWAY II.

EXHIBIT

**IMCO, Garland, Texas bomb bodies which represents and represented PAVEWAY II.

**IMCO, Garland, Texas bomb bodies which represents and represented PAVEWAY II.

**IMCO, Garland, Texas bomb bodies which represents and represented PAVEWAY II.

**IMCO, Garland, Texas bomb bodies which represents and represented PAVEWAY II.

**IMCO, Garland, Texas bodies which represents and represe

EXHIBIT P-5A

				ı.	P-1 IT	P-1 ITEM NOMENCLATURE	MENCL	ATURE -		3		ź	1	,				Ω.	DATE			Š	March 1006	800			
FY 96/97 BUDGET PRODUCTION SCHEDULE	JCT10	N SC		<u>ا</u> لا	_	묎		1 BO	MBS (PRACTICE BOMBS (Y1Q1)/(Y5Q1) P-1 #39	32		#2	. l				7				Ž	5	220		r	
			ACCPT	BAL				Œ	SCAL Y	FISCAL YEAR 1996	8								ī	SCALY	FISCAL YEAR 1997	764					
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Laser Guided Training Round (LGTR) (EA)	z				_			7	\dashv	\dashv	- 1	- 1		- 1		1	1	T	\dagger	\dagger	+	+	+	+		1	
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	SUST.	1-8-5	MAX	₫								ĹĒ	EADTIME				MANU-			TOTAL	<u>m</u>	BDU 45		9	<u>*</u>		20
M-Alactar & AP-McAlaster OK (F017)	4,500	9,600	19,200	00	_						PRIOR	R		AFTER	œ		FACTURING	RING	٩	AFTER	7	LGTR		7	19		56
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P-1 SHOPPING LIST ITEM NO. 39

Exhibit P-21 Production Schedule

Page 4

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FY 96/97 BUDGET PRODUCTION SCHEDULE		딝	띪	짉	5	ž	딠	릷				_	묎	ğ	빙	틹	PRACTICE BOMBS (Y1Q1)/(Y5Q1) P-1 #39	힐	35	딝	#	္ဌာ									Mar	March 1996	96				
ITEM/																																					
MANUFACTURER/				FISCAL	FISCAL YEAR 1998	1998						_			ĺ	FISCA	FISCAL YEAR 1999	1999										FISC/	FISCAL YEAR 2000	2000							
PROCUREMENT							CALE	CALENDAR YEAR 1998	:AR 195	8									CALE	CALENDAR YEAR 1999	EAR 19:	66								CALE	NDAR Y	CALENDAR YEAR 2000	8			_	
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Laser Guided Training Round		L				L					L		L					L		Ш																	
FY 94 Loral											Ц				Ц	Ц			Ц	Ц			Ц			_											
FY 95 Loral	198 198	198			L							L				L	L				L	L															
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Page 5

P-1 SHOPPING LIST ITEM NO. 39

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						DATE	
WPN BUD	WPN BUDGET ITEM JUSTIFICATION SHEET	USTIFICATIO	ON SHEET			March	March 1996
APPROPRIATION/BUDGET ACTIVITY	ACTIVITY		P-1 ITEM NOMENCLATURE	ENCLATURE			
			Cartridges and Cartridge Actuated Devices	Cartridge Actua	ted Devices		
WPN/B.A. 5 - Ammunition			(CARTS/CADS) (Y1Q8) / (Y5Q4) PEO(T) Program	(Y1Q8) / (Y5Q	4) PEO(T) Prog	ram	
	FY 95*	FY 96*	FY 97	FY 98	FY 99	FY 00	FY 01
Quantity							
Cost (\$M)	15.3	17.6	21.9	23.0	24.4	25.8	26.1

Escape System/Life Support Devices

for example: F-14/A(273); F/A-18(136); S-3(105); EA-6B(45), T-45(76), T/AV-8(90) and AH-1(27). These explosives have finite service lives and are replaced during scheduled maintenance. An aircraft may be grounded if a single one of these items does not meet the standard. Life support devices such as the Sea Water Activated Release System and the FLU-8B/P automatic life vest inflator are batteries, etc, are used in aircraft emergency escape systems. The total number of devices installed varies with the type of aircraft, These items, such as safety/arming devices, sequence controls, shielded mild detonating cord, gas generators, initiators, thermal essential to crew survival after ejection.

Weapons/Stores Release Cartridges

These items are used to eject weapons/stores from aircraft. The JAU-22 and other miscellaneous impulse cartridges are used to eject sonobuoys from aircraft.

Product Improvement Programs

Product Improvement Programs (PIP) are conducted as part of a continuing effort to correct deficiencies in areas of safety, reliability, maintainability, producibility, and to increase the service life of CARTS and CADS.

Production Engineering Support

The Production Engineering Support (PES) efforts include: the review of procurement requests, waivers and deviations, technical support of Lot Acceptance Testing/First Article Testing, as well as conforming to new EPA regulations.

Integrated Logistics Support

Integrated Logistics Support (ILS) efforts provide for ILS planning, maintenance standardization, conducting supply support, technical data programs, and generation and implementation of a traceability system.

* In FY 1995/96, this program is funded in the Procurement of Ammunition, Navy and Marine Corps BA-1 appropriation.

PAGE NO

ITEM NO

P-1 SHOPPING LIST

EXHIBIT P-40

UNCLASSIFIED

CLASSIFICATION

3/25/96

				FY 97	TOTAL COST	1,847	1,136	246	888	1,609	1,833	8,338	1,521	1,888	382	1,373	8/8	21,939		EXHIBIT P-5
	1996				QTY	158,217	338	457	72	472										
	March 1996			FY 96	TOTAL COST	0	868	215	1,162	1,122	1,037	7,033	1,207	2,390	373	1,342	816	17,596		
į	DATE	- Parker or			QTY		274	413	97											
			(504)	FY 95	TOTAL COST	0	531	629	0	897	2,167	2,568	1,359	1,454	300	1,256	1,100	15,291		
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	DOWN	P-1 ITEM NOMENCLATURE	CARTS/CADS (Y1Q8) / (Y5Q4)		TOTAL COST															
	BREAKDOWN				QTY								-							
	COST			IDENT		<	∢	(60		∢								 		
	PROGRAM COST I	APPROPRIATION/BUDGET ACTIVITY	WPN/B.A. 5 - Ammunition	EI EMENT OF COST		LATI-22/B Init Cta (MF64)		PCU-48/B Parachute Release Ct. (4W69)			Navy Aircrew Common Ejection Seat	Misc Devices Under \$500K	Integrated Logistics Support	Production Engineering Support	Quality Assurance	Product Improvement Program	Acceptance Testing	TOTAL		
		APPRO	WPN/B.	COST	1000	ORTRO	08060	08070	Q8TBD	Q8120	Q8300	08600	08800	Q8830	08840	Q8850	Q8860	 		

P-1 SHOPPING LIST ITEM NO PAGE NO 40 2

<u>UNCLASSIFIED</u> CLASSIFICATION

					, ,				DATE	
	WPN BUDGET	_	PROCUREMENT HISTORY AND PLANNING	ENT HIS	STORY A	ND PLA	NNING		March 1996	1996
APPROPRIATION/BUDGET ACTIVITY	CTIVITY				P-1 ITEM NOMENCLATURE	OMENCLA	TURE			
					CARTS/CADS		(Y1Q8) / (Y5Q4)			
LINE ITEM/ FISCAL YFAR	CONTRACTOR	CONTRACT METHOD AND TYPE	CONTRACTED AWARD DATE		DATE OF FIRST DELIVERY	OTY OT	UNIT	SPECS ARE SPEC IF YES AVAIL NOW? REVISIONS WHEN WHEN? REQUIRED AVAIL	ARE SPEC IF YES, REVISIONS WHEN REQUIRED AVAILABLE	IF YES, WHEN AVAILABLE
Q8TBD JAU-22/B Init Ctg (MF64) FY 97	IKNOWN	C/FP	SPCC	APR 97	APR 98	158,217	11.67 YES	YES	ON	
Q8060 <u>THERMAL BATTERY</u> FY 95* FY 96*	ଝ୍ରା	SS/FP SS/FP	NRCC NRCC		APR 96 APR 97	166	3,199.26 YES 3,279.24 YES	YES YES	00	
FY 97*	MSA	SS/FP	NRCC	APR 97	APR 98	338	3,361.22 YES	YES	9	
Q8070 PCU-48/B Parachute Release Ctg (4W69) FY 95 CONAX C	Release Ctg (4W69 CONAX	9) C/FP G/FP	SPCC	AUG 95	96 NNr	1,301	506.39 YES	YES	ON	
FY 96 FY 97	UNKNOWN C/FP	C/FP C/FP	SPCC SPCC	MAR 96 MAR 97	MAR 97 MAR 98	413	521.58 YES 537.23 YES	YES YES	00	
Q8TBD <u>BBU-57A Cutter (DF03)</u> FY 96 FY 97	133) UNKNOWN UNKNOWN	C/FP C/FP	SPCC SPCC	APR 96 APR 97	MAR 97 MAR 98	97	11,979.38 YES 12,340.21 YES	YES YES	0 Q	
REMARKS * Contractor owned data package.	ata packade.									
	1		P-1 SHOP	P-1 SHOPPING LIST					EXHIBIT P-5A	T P-5A

<u>UNCLASSIFIED</u> CLASSIFICATION

P-1 SHOPPING LIST ITEM NO. PAGE NO. 3

<u>UNCLASSIFIED</u> CLASSIFICATION

г				т				
	March 1996			IF YES, WHEN AVAILABLE				
L	DATE March			ARE SPEC REVISIONS REQUIRED	O	ON	O	
			4)	SPECS ARE SPEC IF YES AVAIL NOW? REVISIONS WHEN WHEN?				
	NING	LATURE	Q8) / (Y5Q	UNIT A	3,297.74 YES	3,300.00 YES	3,408.90 YES	
	ZAN	OMENC)S (Y1	QTY	272	340	472	
	RY AND F	P-1 ITEM NOMENCLATURE	CARTS/CADS (Y1Q8) / (Y5Q4)	DATE OF FIRST DELIVERY QTY	96 NON	APR 97	APR 98	
	HISTOF			1 1	NOV 95	APR 96	APR 97	
	ROCUREMENT HISTORY AND PLANNING			CONTRACTED AWARD BY DATE	SPCC	SPCC	SPCC	
	ET PROC			CONTRACT METHOD AND TYPE	SS/FP		SS/FP	
	WPN BUDGET P	ET ACTIVITY		CONTRACTOR AND LOCATION	RCH		(SEATTLE, WA) ROCKET RESEARCH (SEATTLE, WA)	
		APPROPRIATION/BUDGET ACTIVITY	M/DN/B A 5 - Amminition	LINE ITEM/ FISCAL YEAR		FY 96	FY 97	REMARKS
		APPR	/Nd/V		Q812i			 REM

EXHIBIT P-5A

P-1 SHOPPING LIST ITEM NO. PAGE NO. 40 4

FY 96/97 BUDGET PRODUCTION SCHEDULE	CTIC	N SCH	EDULE		P-1 ITEM NOMENCLATURE CARTS/CADS (Y	M NOME	CAD!	EM NOMENCLATURE CARTS/CADS (Y108) / (Y504) P-1 #40	0 / (80	(504)	P-1	#40					<u> </u>	DATE		į	Marc	March 1996	ي ا			
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				Page 5							E	ITEM NO. 40	요						EX	bit P-2	1 Produ	action S	Exhibit P-21 Production Schedule	Ð		

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FY 96/97 BUDGET PRODUCTION SCHEDULE	DUC	S NOL	CHEDL	Ę.		Š	STS/C	:ADS	315	CARTS/CADS (Y1Q8) / (Y5Q4) P-1 #40	Y5Q4)	P-1	#40						<u> </u>				Marc	March 1996	96			
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FY 96/97 BUDGET PRODUCTION SCHEDULE	97 B	San	Ж	PRO) DQ	CTIC	S N	돐	UGE	Щ			P-1 ITE	P-1 ITEM NOMENCLATURE CARTS/CADS	MENCL TS/C.	ADS ADS	316	7(9)	EM NOMENCLATURE CARTS/CADS (Y1Q8) / (Y5Q4) P-1 #40	₽.	<u>*</u>	_						DATE			~	/arch	March 1996	9				
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DD Form 2445, JUL 87

Previous editions are obsolete.

PAGE 8

P-1 SHOPPING LIST ITEM NO. 40

WPN BUE	WPN BUDGET ITEM .	JUSTIFICA	JUSTIFICATION SHEET	_		DAIE	March 1996	
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE Aircraft Escape Rockets/Catal	ENCLATURE Rockets/Catapu	P-1 ITEM NOMENCLATURE Aircraft Escape Rockets/Catapults (Y1Q9) / (Y5Q9)	(60)		
WPN/B.A. 5 - Ammunition			PEU(I) PRUGI	NIX.		00 27	14.04	Γ
	FY 95*	FY 96*	FY 97	FY 98	FY 99	ΓΥ 00		
								Т
Quantity			3	2 0	40.0	10 A	10.7	
Cost (\$M)	9.4	10.4	8.2	0.0	10.2	0.0		Τ
(m) (m)								_

The program is structured to meet replacement requirements that are based on aircraft inventories and escape rocket/catapults This program provides funding for rocket motors, rocket catapults and catapults used to eject crewmen from disabled aircraft. service lives. An aircraft containing a single escape rocket/catapult not up to man-rated standards is grounded for safetyof-flight. Spare inventories are limited to the lowest level that can be maintained without causing aircraft grounding due to shortfalls. Devices are also used to function aircraft emergency safety systems. PES: Production Engineering Support efforts include the review of procurement requests, waivers and deviations, and technical support for First Article Testing/Lot Acceptance Testing. Conformance with new EPA regulations is part of the PES review

<u>ILS</u>: Integrated Logistics Support efforts will provide ILS planning, maintenance standardization, supply support, the generation and implementation of a traceability system, and technical data programs. PIP: Multi-year Product Improvement Programs consists of programs to ensure producibility and safety for the MK 109 Canopy Remover Rocket Motor, the MK 12/16/18 Rocket Catapults, as well as the MK 100/101/123/124 Underseat Rocket Motors.

MK-123/124 underseat rocket motors, various miscellaneous devices, PIP and associated production engineering and The FY 1997 budget request provides funding for the procurement of MK-122 parachute deployment rocket motors, integrated logistics support.

*In FY 1995/96, this program is funded in the Procurement of Ammunition, Navy and Marine Corps BA-1 appropriation.

PAGE NO

P-1 SHOPPING LIST ITEM NO PAGE N

EXHIBIT P-40

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		P-1 ITEM NOMENCLATURE	Aircraft Escape Rockets/Catapults (Y1Q9) / (Y5Q9)		ΩTγ	204 69 145	
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		RIATION	5 - Avia	<u>1</u>		MK122 Parachute Deployment Rkt Mtr (MT29) MK123 Underseat Rkt Mtr (MT31) MK124 Underseat Rkt Mtr (MT31) MK 100 Rkt Mtr (MD68) Reliability Life Misc Devices Under \$500K Integrated Logistics Support Production Engineering Support Product Improvement Program Acceptance Test TOTAL	
		APPROPRIATION/BUDGET ACTIVITY	WPN/B.A. 5 - Aviation Support Equipment	COST	177	Q9070 Q9080 Q9081 Q9090 Q9820 Q9830 Q9850 Q9860	

P-1 SHOPPING LIST ITEM NO PAGE NO 41

<u>UNCLASSIFIED</u> CLASSIFICATION

EXHIBIT P-5A

										DATE	
		WPN BUE	OGET PRO	WPN BUDGET PROCUREMENT HISTORY AND PLANNING	T HIST	ORY AND	PLA	NING		March 1996	1996
APPROP	APPROPRIATION/BUDGET ACTIVITY	VITY				P-1 ITEM NOMENCLATURE	MENCL	ATURE			
WPN/B.A	WPN/B.A. 3 - Aviation Support Equipment - Air-Launched	uipment - Air-Launched	1 Ordnance			Aircraft Escap	e Rocke	ts/Catapult	s (Y1Q9) / (Y5	(60)	
	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED AWARD FIRST BY DATE DELIVE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT	DATE OF SPECS ARE SPEC IF YES FIRST OUNIT AVAIL NOW? REVISIONS WHEN DELIVERY OTY COST WHEN? REQUIRED AVAILA	ARE SPEC IF YES, REVISIONS WHEN REQUIRED AVAILABLE	F YES, WHEN \VAILABLE
Q9070	Q9070 MK 122 Parachute Deployment Rkt Mtr (MT29) FY 95 MARTIN-BAKER	yment Rkt Mtr (MT29) MARTIN-BAKER	C/FP	SPCC	APR 95	APR 96	204	2,858.68 YES		ON	
	FY 97	(LONDON, ENG) UNKNOWN	C/FP	SPCC	APR 97	APR 98	19	3,466.20 YES		O _N	
7 2 1	MIN 123 Undersear KKLIMIT (MTSQU FY 95 MARTIN	MARTIN-BAKER	C/FP	SPCC	APR 95	APR 96	69	7,334.42 YES		ON	
	FY 97	(LONDON, ENG) UNKNOWN	C/FP	SPCC	APR 97	APR 98	ō	8,867.81 YES		ON	
	MIN. 124 Underseal ENT MILL (MILS) FY 95 MARTIN	MARTIN-BAKER	C/FP	SPCC	APR 95	APR 96	145	7,328.40 YES		ON	
000	FY 97	(LONDON, ENG) UNKNOWN	C/FP	SPCC	APR 97	APR 98	18	8,867.81 YES		ON	
08080	G9090 MK 100 Kocket Motor (MDSS) FY 96 MA	MARTIN-BAKER (LONDON, ENG)	SS/FP*	NRCC	APR 96	APR 97	82	10,979.17 YES		ON ON	
REMARKS	(S* Contractor owned data package.	package.									

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P-1 SHOPPING LIST ITEM NO. PAGE NO. 41

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ITEM NO. 41

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BUDGET ITEM JUSTIFICATION SHEET	EET					(DOD EXHIBIT P-40)	3IT P-40)		DATE
									March 96
APPROPRIATION/BUDGET ACTIVITY	ے			P-1 ITEM N	P-1 ITEM NOMENCLATURE	URE			
Weapons Procurement, Navy / BA-5 - AMMUN	- AMMUNITI	NITION		AIRBORNE	AIRBORNE EXPENDABLE C/M PROGRAM (SH 41QA)	3LE C/M PR	OGRAM (S	H 41QA)	
		FY 1995	FY 1996	FY 1997	FY 1995 FY 1996 FY 1997 FY 1998 FY 1999 FY 2000 FY 2001	FY 1999	FY 2000	FY 2001	
QUANTITY		*	*						
COST (in millions)		14.0	14.0 24.3	22.0	42.9	8.99	54.2	51.6	

The Airborne Electronic Warfare Expendable Countermeasures (ABN EXP C/M) line provides funding for procurement of countermeasure divided into the following threat related categories: (a) air-launched chaff, (b) Radio Frequency (RF) Active jammers, (c) infrared (IR) self-protection devices for all Navy and Marine Corps tactical, rotary and slow fixed-wing aircraft. The ABN EXP C/M Program is decoys, (d) associated impulse cartridges, and (e) support costs.

countermeasure into the existing RR-184 package. The FY96 funds will be used to ensure an economical initial procurement of the requirements. Developmental Testing is underway to determine BOL Chaff suitability for F/A18 series aircraft. The RR-184 is the Chaff Countermeasures: The LAU-138A/A BOL Chaff launcher was procured as a Non-Developmental Item (NDI) to meet F-14 chaff countermeasure associated with the LAU-138A/A BOL Chaff launcher. The FY95 funds will be used to qualify an IR BOL IR countermeasure.

Active Jammers: The Generic Expendable Decoy (GEN-X) is compatible with all current and future countermeasure dispensers 29/39/47) and is capable of countering multiple RF threats. IR Decoys: Beginning in FY96 the MJU38 will replace the MJU8A/B and will be the infrared countermeasure used by high performance (tactical) aircraft. Begining in FY96 the MJU32 will replace the MK46 and will be the infrared countermeasure used by rotary and slow dedicated, low cost training device that was transitioned to the Army as Single Manager for Conventional Ammunition (SMCA) during lower/slower flying aircraft. The MJU-27A/B incorporates a safety enhancement and will replace the MJU-27B. The SM875 is a ixed-wing aircraft. The MJU32 and MJU38 incorporate several safety enhancements that will significantly lessen the hazards associated with handling and producing magnesium fueled devices. The RR191 is a dual RF/IR countermeasure in support of FY95 and will be competitively procured by the SMCA in FY96.

Impulse Cartridges: Used to propel the self-protection devices away from the aircraft. CCU-63/B is used for flares/GEN-X/ SM875 (flare training round) and the CCU41/B is used for chaff. Support costs: Provide for required Production Engineering (PE), Product Improvement (PIP), Quality Assurance (QA), Acceptance Test and Evaluation (AT&E), and Integrated Logistic Support (ILS) by NAVAIR engineering/cognizant field activities.

*In FY 1995/96, this program is funded in the Procurement of Ammunition, Navy and Marine Corps BA-1 appropriation.

DD FORM 2454, JUN 86

P-1 Shopping List

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		PROGRAM	COST	BREAKDOWN	(DOD EXHIBIT	KHIBIT P-5)	5)			DATE March 96
APPROP	APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM	ITEM NOMENCLATURE	ATURE				SUBHEAD
WEAPONS	PROCUREMENT,	- AMMUNITION		AIRBORNE	EXPENDABLE	C/M	PROGRAM # 42	42		41QA
COST		IDENT		(TOTAL CO	NI LSC	SANDS	OF DOLLARS)	RS)		
CODE	ELEMENT OF COST	CODE			FY 1	1995	FY 1	1996	FY	1997
					QTY	TTL COST	QTY	TTL COST	QTY	TTL COST
	CHAFF COUNTERMEASURES									
05240	RR-184 BOL CHAFF	Æ			642,456	1,954				
	ACTIVE JAMMERS									
05250	Q5250 GEN-X DECOY	Æ							945	6,291
	IR DECOYS									
Q5130	Q5130 MJU-27A/B DECOY	⋖					20,883	2,594		
05140	Q5140 MJU-32/B ROTARY-WING DECOY	₹					138,696	4,624	125,838	3,614
05150	Q5150 MJU-38 FIXED WING DECOY	Æ					131,094	5,322	113,185	3,980
95260	Q5260 SM875 (TRAINING FLARE)	æ	. 1				127,960	1,115		
	IMPULSE CARTRIDGES									
02010	CCU-63/B (IR DECOYS)	4		•			316,000		407,445	546
02080	CCU-41/B (CHAFF)	A	· -		683,039	860	130,000	96T		
			,			,		,		C L
Q5830	PRODUCTION ENGINEERING					1,960		1,960		1,850
05840	QUALITY ASSURANCE					. 491		507		510
05850	PRODUCT IMPROVEMENT				,	4,862		4,239		2,101
05860	ACCEPTANCE TEST				,	3,672		2,987		2,788
	& EVALUATION									
028800	ILS					190		350		300
• • •	TOTAL					13,989		24,308		21,980
DD FOE	DD FORM 2446 JUL 86		P-1 8	Shipping	List	PAGE NO.			UN	UNCLASSIFIED

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		BUDGET PROCUREMENT HISTORY	MENT HIST	ORY & PLANNING		(DOD EXHIBIT	r P-5A)			DATE	
										March 1996	1996
APPROF	APPROPRIATION/BUDGET ACTIVITY	VITY		P-1 ITEM NOM	NOMENCLATURE					SUBHEAD N	NO.
WEAPOR	WEAPONS PROCUREMENT, NAVY	/ BA5 - AMMUNITION	TION	AIRBORNE EXPI	EXPENDABLE C/M	PROGRAM # 4	42				41QA
COST			mor aminoo		• •	E 84			SPECS		0
CODE	ELEMENT OF COST	CONTRACTOR/	METHOD	CONTRACTED	AWARD	·	OTY	TIMD	AVAIL NOW?	REVISIONS	MHEN WHEN
		LOCATION	& TYPE	ВУ	DATE		i i	COST		REO'D?	AVATT.
	Chaff Countermeasures	1								3	
Q5240	Q5240 RR-184 BOL CHAFF (CWCK) FY-95	Tracor Lillington, NC	C/FP	NSPCC	Jan 9	96 Dec 96	642,456	3.04	Yes	° N	
	Active Jammers										
05250	Q5250 GEN-X DECOY (CWCG) FY-94	TEXAS INST	SS/FP	NAWCAD	Sep 9	94 Aug 96	1,440	5,550.00	Yes	O Z	
				Warminster	-						•
	(CWCG) FY-97	TEXAS INST Dallas, TX	SS/FP	NAWCAD	6 unc	97 Oct 97	945	6,656.84	Yes	ON	
	Infrared Decoys										
05130	Q5130 MJU-27A/B DECOY (EWAA) FY-96	ALLOY	SS/FP	SMCA	0 unC	96 Oct 96	20,883	124.19	Yes	Yes	
		Wilmington DE									
05140	Q5140 MJU-32 ROTARY WING AIRCRAFT DECOY	AIRCRAFT DECOY	ر ت 2	S. C.			000	ר ר	i h P		
		Olivilo	44/)	SMCA		30 OCL 30	138,090	33.34	Yes	0 Z	
<u></u>	(LA01) FY-97	Unknown	C/FP	SMCA	Jun 97	7 Oct 97	125,838	28.72	Yes	N 0	

REMARKS: RR-184/189 BOL chaff was competitively procured beginning FY94. During March of 95 Tracor bought Lundy (chaff production) and currently is the only chaff producer in the U.S.

The FY-97 GEN-X unit cost reflects DCAA approved adjusted overhead rate.

The The MJU32 is a product improvement to the MK46. The MJU27A/B is a safety improved version of the MJU-27/B. MJU-27A/B and the MJU-32 will transition to and be competitively procured by the SMCA in FY96.

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		•	BOLGET FROCORENENT ALSTORI	MENT HIST	OKI & FLANNING	9	(TOT)	1101110	(4)			March 1996	9661
APPROP	APPROPRIATION/BUDGET ACTIVITY	T ACTIV	ITY		P-1 ITEM NOM	NOMENCLATURE	3E					SUBHEAD NO	٥.
WEAPON	WEAPONS PROCUREMENT, NAVY / BA5	, NAVY	/ BAS - AMMUNITION		AIRBORNE EXP	EXPENDABLE	C/M	PROGRAM #42				7	41QA
											SPECS	ARE	
COST				CONTRACT	***************************************			DATE OF			AVAIL	SPEC	IF YES,
CODE	ELEMENT OF COST	Ę.	CONTRACTOR/	METHOD	CONTRACTED		AWARD	FIRST	QTY	UNIT	NOW?	REVISIONS	WHEN
			LOCATION	& TYPE	BY		DATE	DELIVERY		COST	WHENS	REQ'D?	AVAIL
	Infrared Decoys	оув											
05150	Q5150 MJU-38 TACTICAL AIRCRAFT DECOY (LA02) FY-96 UNKNOWN	CAL AIRC	CRAFT DECOY UNKNOWN	C/FP	SMCA		96 unf	Nov 96	131,094	40.60	Yes	N _O	
	(LAO2)	FY-97	UNKNOWN	C/FP	SMCA		Jun 97	Oct 97	113,185	35.16	Yes	N O	
05260	Q5260 SM875 TRNG FLARE (L540) FY-9	LARE FY-96	UNKNOMN	C/FP	SMCA		96 unf	Oct 96	127,960	8.71	Yes	O N	
05070	Impulse Cartridges Q5070 CCU-63/B (IR DECOYS	ridges DECOYS											
	(MF29)	FY-96	UNKNOMN	C/FP	NSPCC				316,000	1.31	Yes	0 (Z 2	
	(MF29)	FY-97	ONKNOWN	C/F.F	NSPCC		May 97	76 JOO	401,4443	# O •	מ ע	2	
02080	Q5080 CCU-41/B (CHAFF) (MF60) FY-	IAFF) FY-95 FY-95	CAPCO	C/FP C/FP	NSPCC	-	Feb 95 May 96	Sep 95 Sep 96	625,706	1.24	Yes	0 0 N	
	(MF60)	FY-96	UNKNOMN	C/FP	NSPCC		May 96	Sep 96	130,000	1.51	Yes	No	
0.40 6340 0													

REMARKS

The MJU38 incorporates a safety improvement to and will replace the MJU-8A/B beginning in FY96. The MJU-38 will The SM875 is a dedicated, low cost training device that was transitioned to the SMCA during FY95 and will be transition to and be competitively procured by the SMCA in FY96.

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competitively procured by the SMCA in FY96.

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Part Total Nobelo Cat Note Part Total Nobelo Cat Note Part Total Nobelo Cat Note Part Total Nobelo Cat Note Part Total Note Part Total Nobelo Cat Note Part Total Nobelo Cat Note Part Total Note	FY95-96 PF	FY95-96 PRODUCTION SCHEDULE P-21	SCHED	ULE F	3-21																						DATE	rE March 1996	900
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Fig. 19 Fig.			<u> </u>							FIS	CAL YE	1R 96					П				É	SCAL YE	AR 97						
Fig. Fig.						ပြ	795		δ	96														CAL	ENDAR,	/EAR 97			
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1,000 1,00	Chaff Count	ermeasures		\vdash				-	-	\vdash	<u> </u>	-	_					T	T	t	+		-	-		-			v
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EA 3,416 0 3,416 0 3,416 0 4,440 0 1,440 0	Active Jamr	ners	-	\dashv	-	-		_	\dashv														_	\dashv					
California Cal	G5250 GEN-X									-	_												_	_					
EA 1,440 0 1,440 0 0 0 0 0 0 0 0 0	TEX INST FY-	\dashv	4	- 1		- 1						4																	
EA	TEX INST FY-	┪	e,	416		1,416	_				5.					420													
E	TEX INST FY.	┪	-	440		440			_	-						200	620	620					_						
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Fig. 20,883 0 20,883 0 20,883 0 0 0 0 0 0 0 0 0	Infrared Dec	9,0	-	-		\dashv			\dashv																				
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C	ALLOY FY-96		20,	883		,883	\dashv	-	\dashv	-	-	_	_	4															
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No. No.			+	+	+	+	\dagger	+	+	+	+	_	1					\dagger	\dagger	+	+	+	+	+	_	•			
FRODUCTION RATES F. A B A A D D B C D B A A D D D B A B A D D D B B A B A D D D B B A D D D B B A D D D D B D D			\parallel	\parallel	\parallel	\parallel	#	#	╫	╫	H	╫	╬	\prod	$ lap{1}{1}$		1	#	#	$+\!\!+\!\!\!+$	╫	╫	╫	╫	\prod				
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85K 85K 170K INITIAL 12 3 15 RR-184 (U.K.) CHEMPING 200 800 800 11 17 28 GEN-X (FY94) 1020 8000 16000 8 4 12 MJUZ7AB (FY96) RECPORT 8 4 12 GEN-X (FY97) 3 11 14 RR-184 (FY95)	RR-184 CHEMRING	84	.5K	1	4	冒		T					2	12			14	1A-184 (U.S.) TF	JACOR		Region	ahead	of sche	dule.	G	i Hedi	9	titivaly
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8 4 12 GEN-X (FY97) 3 11 14 RR-184 (FY95)	MJU27A/B ALLOY SUF	┪	020	8	-	3000		+		\dashv		-		4			12	AJU27A.	/B (FY9	6		: :			2	2	פנאמני	Ē	
11 14 RR-184 (FY95)				-	_	-		<u>#</u>	SOPOER			4		4			12	EN-X ((497			Gen-X	schedu	ile refl	ects con	tract m	odificati	on.	
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_	FY95-96 PRODUCTION SCHEDULE P-21	DUCTIC	N SCH	EDULE	- P-21	_																						DATE	TE March 1996	966
APPR(APPROPRIATION/BUDGET ACTIVITY	JDGET	ACTIV	ΊΤΥ													P-1	TEM	VOME	P-1 ITEM NOMENCLATURE	TURE						0,	SUBHEAD NO.	AD	ō.
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	ITEM/M1r						ંા			CY 96															CALENDAR YEAR 97	AR YE	4R 97			
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	Impulse Cartridges	jes.									\vdash	-	-	\vdash	_	_			<u> </u>									-	-	
Q5070	Q5070 CCU-63/B (F/D)			Н										_	L	_														
	UNKNOWN FY-96	000		316.0	0.0	316.0								4				27.0	27.0	27.0	27.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	0
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Q5080 (Q5080 CCU-41/B (CHAFF)													_	_															
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P-1 Shopping List ITEM NO. 42

DD FORM 2445, JUL 87

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DO FORM 2448, JUL 87	, JUL 87						<u> </u>	EM K	P-1 Shopping List ITEM NO. 42	ī			a.	PAGE NO.	Ċ.																			N	UNCLASSIFIED	SIFIE	
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	ē						DATE	
		WEAPONS	WEAPONS PROCUREMENT, NAVY	T, NAVY	(DOD EX	(DOD EXHIBIT P-40)		
		BUDGET ITE	BUDGET ITEM JUSTIFICATION SHEET	TION SHEET			March 1996	1996
NAVMAT FORM 77101	:							
BUDGET ACTIVITY 5.				P-1 ITEM NOMENCLATURE	MENCLATURE			
Ammunition				MARINE LOCA	MARINE LOCATION MARKERS (Y1Q6)	3 (Y1Q6)	PEO(T) Program	ogram
		* u	* 70 - Au	L0 - AG	0 0	001	0 O - A-H	#∜- 101
QUANTITY			. 06-114	16-14	06-13	66-14		
COST (\$M)		0.8	6.0	9.0	0.7	2.1	3.4	2.0

Marine Location Markers

These items include aircraft launched pyrotechnic devices which visually assist in the location of sonobouys in produces yellow flame and white smoke for 40-60 minutes which is visible for at least three miles under normal "marked spot" on the water surface, including man-overboard drills. The MK 58 was designed for day or night anti-submarine operations. They are also hand launched and used in a variety of situations which require a day/night reference-points in marking the course of enemy contacts. It is suitable for any type sea surface The MK 25 is designed to launch from aircraft (primary) or surface craft to provide use in any condition calling for long burning, smoke and flame reference-point marking on the ocean. reference point marking that calls for both smoke and flame for approximately fifteen minutes. operating conditions.

The effort to characterize red phosphorus (RP) will continue. The incorporation of an improved The current budget profile provides funding for support efforts (PES, ILS), procurement of non-standard items, required to complete final testing and documentation of MK 58 Mod 2 and the sonobouy launch container (SLC)begins. Improvements planned are to add a switch to the firing circuit which will improve the safety of the environmentally friendly pyrotechnic compositions and improvement to the producibility of pyrotechnic items renovation components, and product improvement programs (PIPs) for future procurements. Funds for PIP are red phosphorus smoke composition for Marine Location Markers will begin. In FY 96/97, development of marker and to replace the aluminum inner tube with a steel tube. type in FY 95.

In FY 1995/96, this program is funded in the Procurement of Ammunition, Navy and Marine Corps BA-1 appropriation. *NOTE:

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UNCLASSIFIED CLASSIFICATION

APPROPRIATION	NO	PROGRA	MCOST	PBOGRAM COST BREAKDOWN		(DOD EXHIBIT P-5)	(5)	Date		
Weapons Pro	Weapons Procurement, Navy						 `			-
BUDGET ACTIVITY	IVITY	P-1 ITEM	NOMEN	P-1 ITEM NOMENCLATURE					SUBHEAD NO.	NO.
BA-5 Ammunition	HIION	MARINE	LOCATIO	MARINE LOCATION MARKERS	PEO(T)	PEO(T) Program			Y106	
Cost Code	ELEMENT OF COST	DENT				(Total cost in thousands of dollars) FY-95	onsands	of dollars) FY-96		FY-97
			ΔIΔ	TOTAL COST	ΔI	TOTAL COST	QTY	TOTAL COST	QΤΥ	TOTAL COST
Q6800 Q6830 Q6892 Q6893	ILS Prod Engineering Support Product Improvement Non-Standard Items Renovation Comp. (Metal parts) TOTAL					25 255 465 17 14 776		25 300 505 12 12 854		23 182 300 65 10

P-1 Shopping List Item No. 43 Page 2

UNCLASSIFIED CLASSIFICATION

							DATE	
	×	VEAPONS	WEAPONS PROCUREMENT, NAVY	T, NAVY	(DOD EX	(DOD EXHIBIT P-40)		
	BUDG	BET ITEN	4 JUSTIFICA	BUDGET ITEM JUSTIFICATION SHEET			March 1996	1996
NAVMAT FORM 7710 1								
BUDGET ACTIVITY 5.				P-1 ITEM NOMENCLATURE	MENCLATURE			
Ammunition				JATO (JET A	SSISTED TAKE	JATO (JET ASSISTED TAKE OFF) (Y1Q7)		PEO(T) Program
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	- X 4	- T I - 3 J	FI-yo.	FX-9/	86-14	FI-39	- I I	TOLIJ
QUANTITY								
COST (\$M)	T	1.8	4.8	4.2	5.0	5.8	5.9	0.9

JATOS are relatively small solid propellant rocket motors used to assist aircraft during takeoff, launch target drones and Remotely Description: The JATOs currently in production are the MK 117, MK 125, and MK 128. Piloted Vehicles (RPVs).

increased performance required to launch increasingly heavy targets. One MK 125 is used to launch the Pioneer safety. Up to eight MK 128s are used to provide auxiliary thrust to C-130 aircraft when heavily loaded and/or Intended use: Two MK 117s are used to launch one BQM 74C target. The MK 117 replaces the MK 91 and provides RPV. The MK 128 is an improved version of the MK 6 developed to correct age related defects that impacted using a short runway.

Product Improvement: Funds requested for the Product Improvement Program (PIP) are in support of MK 117 design verification/qualification testing.

The FY 1997 budget request provides funding for procurement of 162 MK 128s, 616 MK 117s and associated PIP, production engineering and logistics support. *NOTE: In FY 1995/96, this program is funded in the Procurement of Ammunition, Navy and Marine Corps BA-1 approriation.

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UNCLASSIFIED CLASSIFICATION

APPROPRIATION	APPROPRIATION	PROGR4	NM COST	PROGRAM COST BREAKDOWN		(рор ехнівіт Р-5)	-5)	Date	March 1996	ص
o capa									CHOLEADING	Q.
BUDGET ACTIVITY 5. Ammunition	VITA	P-1 ITEN	A NOMEN	ITEM NOMENCLATURE					SUBNEAU	<u> </u>
		JATO (J	ET ASS	JATO (JET ASSISTED TAKE OFF)		PEO (T) Program				Y1Q7
Cost Code	ELEMENT OF COST	CODE				(Total cost in thousands of dollars) FY-95	ousands	s of dollars) FY-96		FY-97
			ΩTY	TOTAL COST	QTY	TOTAL COST	ΩTY	TOTAL COST	αту	TOTAL COST
QX050 QX860 QX820 QX830 QX850	MK 125 RATO (H311) MK 128 JATO (H314) MK 117 MOD 0 ROCKET MOTOR (H341) ILS PRODUCTION ENGINEERING PRODUCT IMPROVEMENT TOTAL	< < <			148 3 - 3 12	485 - 967 44 264 - 1,760	1	3,776 60 404 591 4,831	- 162 616 616	1,056 2,015 50 400 645 4,166
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P-1 Shopping List Item No. 44 Page 2

UNCLASSIFIED CLASSIFICATION

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APPROPRIATION/BUDGET ACTIVITY	/ITY					P-1 ITEN	P-1 ITEM NOMENCLATURE	TURE	SUBHEAD NO:	0
Weapons Procurement, Navy Ammunition	Ammunition	PEQ(T) Program	cogram			JATO			¥1	Y107
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		UNIT	AVAIL	REVIS	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	BY	DATE	DELIVERY	QTY	COST	NOW	REQ'D	AVAIL
QX050 MK 125 RATO (H311) FY 95	UNIVERSAL	C/FP	Indian Head	75 unT.	96 450	148	3.278.00	VES	ON	
	PROPULSION CO,	INC))	2		
	(PHOENIX, AZ)									
QX060 MK 128 JATO (H314)										
FY 94	NSWC IHD	ЪО	NAVAIR	Apr 94	Mar 97	614	6,120.06	YES	NO	
	(INDIAN HEAD, MD)	MD)								
FY 97	NSWC IHD	PO	NAVAIR	Apr 97	Apr 98	162	6,528.27	YES	ON	
OX820 MK 117 MOD 0 JATO RKT MTR (H341)	 									
FY 95	NSWC IHD	·РО	NAVAIR	Apr 95	Apr 96	312	3,098.90	YES	ON	
	(INDIAN HEAD, MD)	MD)								
FY 96	NSWC IHD	PO	NAVAIR	Apr 96	Apr 97	1,189	3,175.82	YES	ON	
FY 97	NSWC IHD	Ю	NAVAIR	Apr 97	Apr 98	616	3,271.05	YES	ON	
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REMARKS:										

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Exhibit P-5A UNCLASSIFIED

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QX060-MK 128 JATO (H314)	z					+	+-	-				T	+	╁┈		\perp					\vdash					
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QX820-MK 117 (H341)	z												\dashv		\dashv	_								-	_	
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MANUFACTURER'S NAME AND LOCATION	MINIMUM	9,		₫							7 1	ADMIN FAD TIME	_ ff			MAN!	<u> </u>		TOTAL							
H311-UPCO-Phoenix, AZ	41.7	125.0	-	375.0							PRIOR	-		AFTER	T	FACTURING	RING		AFTER	. ~						
H341-NSWCIHD-Indian Head, MD	20.8	83.3	-	166.7						,	1-0ct			1-0ct		TIME	Щ		1-0ct							
H314-NSWCIHD-Indian Head, MD	20.8	83.3	166.7	166.7	INITIAL	ايد				\perp				9	+	12		\downarrow	18							
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P-1 SHOPPING LIST ITEM NO. 44 Page 4



NAVMAT FORM 7110.1	WEAPONS PROCUREMENT NAVY BUDGET ITEM JUSTIFICATION SHEE	INS PROCUREMENT NAVY	Ε:	(DOD EXHIBIT P-40)	P-40)	.MARCH 1996	
BUDGET ACTIVITY 5 AMMUNITION			P-1 ITEM NOMENCLATURE 5"/54 GUN AMMUNITION	ENCLATURE MUNITION			
	FY 95*	FY 96*	FY 97	FY 98	FY 99	FY 00	FY 01
DIJANTITY							0.00
COST (In Millions \$)	68.5	35.3	13.5	28.4	58.8	90.9	9.101

TEM DESCRIPTION/JUSTIFICATION

This is a round of ammunition (separate loading ammunition) fired from cruiser and destroyer type combatant ships against air, surface and shore targets. There are also numerous barrels located at schools and engineering test sites.

PROCUREMENT: The funds are required to procure components, load and assemble complete rounds and conduct acceptance tests.

preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; PRODUCTION ENGINEERING: Funds requested provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; production configuration control; and other related engineering function which are integral to an item's manufacture. PRODUCT IMPROVEMENT: The requested funds provide engineering services and related effort by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications. newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced

* In FY 1995 and FY 1996, this program is funded in Procurement Ammunition, Navy and Marine Corps BA-1.

P-1 SHOPPING LIST

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QX060-MK 128 JATO (H314)		+	,	:	1	_	-	—		+-	+	+-	+	+	-	┼─	1	:	_		+	+	+	_							-	+	\vdash	\vdash		
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UNCLASSIFIED

NAVMAT FORM 7110.1	WEAPONS PROCUREMENT NAVY BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	.MARCH 1996
BUDGET ACTIVITY 5 AMMUNITION	. P-1 ITEM 5"/54 GUI	P-1 ITEM NOMENCLATURE 5"/54 GUN AMMUNITION	

RENOVATION COMPONENTS: The items purchased with funds identified for renovation components will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions. <u>GAUGE:</u> These funds are required to procure the gauges and test equipments necessary to check critical dimensions/parameters of ammunition items and their parts. This is to assure proper mating of parts and subassemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance.

NON-STANDARD ITEMS: The non-standard line is to support procurement of ammunition training aids and initial procurements of required non type classified munition items. All ammo procured with these funds is procured through the Conventional Ammunition Working Capital Fund (CAWCF) and the most recent CAWCF standard/non-standard price list has been used in pricing the ammo.



WEAPONS PROCUREMENT, NAVY BUDGET ACTIVITY 5 AMMUNITION Code Code AC001 5'754 HE-CVT AC004 5'754 HE-CVT AC004 5'754 HE-CVT AC004 5'754 HE-CVT AC004 5'754 HE-CVT AC004 5'754 HE-CVT AC004 5'754 HE-CVT AC004 5'754 HE-CVT AC004 5'754 HE-CVT AC004 5'754 HE-CVT AC004 5'754 HE-CVT AC004 5'754 HE-CVT AC004 5'754 HE-CVT AC004 5'754 HE-CVT AC004 5'754 HE-CVT AC005 AC007 5'754 HE-CVT AC006 5'754 HE-CVT AC006 5'754 HE-CVT AC007 5'754 HE-CVT AC006 AC007 5'754 HE-CVT AC007 5'754 HE-CVT AC007 AC008 AC007 AC008 AC007 AC008 AC								
BUDGET ACTIVITY 5 AMMUNITION Cost Code Code First HE-CVT AC002 5'/54 HE-CVT AC004 5'/54 HE-CVT AC004 5'/54 HE-CVT AC004 5'/54 HE-CVT AC004 5'/54 HE-CVT AC004 5'/54 HE-CVT AC004 5'/54 HE-CVT AC004 5'/54 HE-CVT AC004 5'/54 HE-CVT AC006 5'/54 HE-CVT AC007 AC008 First FOUL CHG AC007 AC008 AC008 AC008 AC009	TAVY	WEAPONS S	WEAPONS SYSTEM COST ANALYSIS	YSIS	(DOD EXHIBIT P-5)		.MARCH 1996	
Code Elem Code Elem AC001 5"/54 HE-CVT AC004 5"/54 HE-CVT AC004 5"/54 HE-CVT AC004 5"/54 HE-CVT AC004 5"/54 HE-CVT AC004 5"/54 PLL CHG AC006 5"/54 PRL&PD/I AC013 5"/54 PRUMER AC030 PRODUCTION ENG AC030 PRODUCTION ENG AC030 PRODUCTION COM AC030 RENOVATION COM AC030 RENOVATION COM AC031 RENOVATION COM AC033 RENOVATION COM AC034 GAUGE REQUIREM AC035 NON-STANDARD II TOTAL			000303	P-1 ITEM NOMENCLATURE	ATURE		SUBHEAD NO.	
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		D349			1800	349		
	PDD	D884	17000	14287				
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	GINEERING			3684		2540		2743
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	MPONENTS - MFF							2305
	MPONENTS			5865		3905		1147
	MENTS			512		527		533
TOTAL	TEMS			176		150		155
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HT 96 X 8 KY								
FY 95 & FY 96 TH								
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200	FY 95 & FY 96 THIS PROGRAM IS FUNDED	IN PROCURE	MENT AMMUNITION	IN PROCUREMENT AMMUNITION, NAVY & MARINE CORP BA-1	SORP BA-1.			

ITEM NO. 45 PAGE NO. 3 UNCLASSIFIED

EXHIBIT P-5 Weapons System Cost Analysis





UNCLASSIFIED CLASSIFICATION

APPROPRIATION WEAPONS PRO	PPROPRIATION WEAPONS PROCUREMENT, NAVY		PROCUREME	PROCUREMENT HISTORY & PLANNING	ANNING			(DOD EXHIBIT P-5A)	NT P-5A)	MARCH 1996		
BUDGET ACTIVITY	CTMTY	NARM CODE 525000			P-1 ITEM NOMENCLATURE 5754 GUN AMMUNITION	MENCLATUR	ı ı				SUBHEAD NO. 85AC	
COST	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	CONTRACT P/R METHOD CONTRACTED RELEASE AND TYPE BY DATE	RELEASE		DATE OF FIRST DELIVERY	ΔI	UNIT	SPECS ARE SPECS AVAIL REVS NOW/WHEN REQUIRED	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL

		96 -Inf			96-Inf
9 9	9	NO	2	9	YES
YES	YES	YES	YES	YES	9
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Jul-97 Jan-98	Dec-96	Aug-88 Feb-99	May-98	Jun-97	Feb-98
Jan-95 Jan-96	Jan-95	Jul-96 Jan-97	96-Jn	Jan-95	Jan-97
Nov-94 Nov-95	Nov-94	May-96 Nov-96	May-96	Nov-94	Nov-96
AMCCOM DRSMC AMCCOM DRSMC	AMCCOM DRSMC	AMCCOM DRSM AMCCOM DRSMC	AMCCOM DRSMC	AMCCOM DRSMC	AMCCOM DRSMC
MIPR	MIPR	MIPR	MIPR	MIPR	MIPR
5"/54 HE-CVT D803 NAVY LRIP FY 1995 FY 1996 CAAA; CRANE, IN	5"/54 FULL CHG D326 FY 1995 MCAAP; MCALESTER, OK	57/54 VT NON-FRAG D334 FY 1996 UNKNOWN FY 1997 UNKNOWN	5°54 BL&P D349 FY 1996 UNKNOWN	5754 PROJ HE-PD/PDD D884 NAVY LRIP FY 1895 CAAA; CRANE, IN	PRIMER, ELEC-PERCUSSION, LOCK CO. N534 FY 1997 UNKNOWN
AC001	AC002	AC004	AC008	AC013	AC017

*INCLUDES GFM



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Hanufacturer's Name and Location

ACDOT-CAAA ACD13-UNOVAN

REMARKA PRODUCTION SCHEDULES FOR FY99 - FY2001 ARE ON THE FOLLOWING PAGE.

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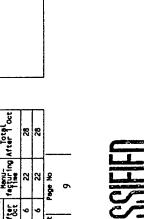


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NAVMAT FORM 7110.1	WEAPONS PROCUREMENT NAVY BUDGET ITEM JUSTIFICATION SHEE	ONS PROCUREMENT NAVY ITEM JUSTIFICATION SHEET	VY ÆET	(DOD EXHIBIT P-40)	P-40)	MARCH 1996	
BUDGET ACTIVITY 5 AMMUNITION			P-1 ITEM NOMENCLATURE 76MM GUN AMMUNITION	IENCLATURE MMUNITION			
	10 \\	EV 06	EV 07	FY 98	FY 99	FY 00	FY 01
	FY 95"	71.80	16.1.1	3			
OUANTITY						53	a v
COST (In Millions \$)	13.8	6.3	2.7	3.5	3.9	3.6	2

ITEM DESCRIPTION/JUSTIFICATION:

Frigates (FFG), and United States Coast Guard (USCG) ships. At the end of FY 96 there will be weapon systems installed on Guided Missile Frigates (FFG) The 76MM caliber cartridge is a fixed round of ammunition for use in the MK 75 gun mount. Its primary use is against air targets, but it may be used against surface and shore targets. The weapon system, the MK 75 gun mount and MK 92 fire control system, has been designated for use on Guided Missile and United States Coast Guard (USCG) ships. There are also numerous barrels located at schools and engineering test sites.

PROCUREMENT: The funds are required to procure components, load and assemble complete rounds and conduct acceptance tests.

preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; PRODUCTION ENGINEERING: Funds requested provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; production configuration control; and other related engineering function which are integral to an item's manufacture. PRODUCT IMPROVEMENT: The requested funds provide engineering services and related effort by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications. newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced

* In FY 1995 and FY 1996, this program is funded in Procurement Ammunition, Navy and Marine Corps BA-1.

ITEM NO. 46 PAGE NO. 1 UNCLASSIFIED

EXHIBIT P-40 Budget Item Justification Sheet

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CLASSIFICATION UNCLASSIFIED

MARCH 1996 (DOD EXHIBIT P-40) P-1 ITEM NOMENCLATURE **76MM GUN AMMUNITION** BUDGET ITEM JUSTIFICATION SHEET WEAPONS PROCUREMENT NAVY NAVMAT FORM 7110.1 BUDGET ACTIVITY **5 AMMUNITION** RENOVATION COMPONENTS: The items purchased with funds identified for renovation components will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions. <u>GAUGE:</u> These funds are required to procure the gauges and test equipments necessary to check critical dimensions/parameters of ammunition items and their parts. This is to assure proper mating of parts and subassemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance.

NON-STANDARD ITEMS: The non-standard line is to support procurement of ammunition training aids and initial procurements of required non type classified munition items.

All ammo procured with these funds is procured through the Conventional Ammunition Working Capital Fund (CAWCF) and the most recent CAWCF standard/non-standard price list has been used in pricing the ammo.



APPROPRIATION WEAPONS PRO	PPROPRIATION WEAPONS PROCUREMENT, NAVY				(DOD EXHIBIT P-5)		MARCH 1996	
RI IDGET ACTIVITY	TMTY			P-1 ITEM NOMENCLATURE	ATURE		SUBHEAD NO.	
S AMMI INITION	NOL	NARM CODE 526500		76MM GUN AMMUNITION	ITION		85AF	
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\$ 00 00	Element of Cost	6 00	ΔTΛ	Total Cost	ατγ	Total Cost	αтν	Total Cost
AF001	76MM BL+P	C062	8532	4583				
AF002	76MM HE-IR CTG	0900	4321	7436	3096	4306		
AF013	76MM MFF-HE	MFF2					1152	1000
AFR30	PRODUCTION ENGINEERING			793		858		767
AEREO	TO THE PROPERTY			108		841		545
2003	PENOVATION COMPONENTS			85		121		235
AFR94	GALIGE REQUIREMENTS			115		133		146
AFR95	NON-STANDARD ITEMS			27		42		45
2				13840		6301		2738
	TOTAL							
		- FY 95 AND	FY 96 THIS PROGR	AM IS FUNDED UND	ER PROCUREMENT	AMMUNITION NAV	FY 95 AND FY 96 THIS PROGRAM IS FUNDED UNDER PROCUREMENT AMMUNITION NAVY & MARINE CORP BA-1	F.1.

ITEM NO. 48 PAGE NO. 3 UNCLASSIFIED

EXHIBIT P-5 Weapons System Cost Analysis

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P-1 SHOPPING LIST

UNCLASSIFIED CLASSIFICATION

APPROPRIATION WEAPONS PRO	PPROPRIATION WEAPONS PROCUREMENT, NAVY		PROCUREME	PROCUREMENT HISTORY & PLANNING	ANNING			(DOD EXHIBIT P-5A)	T P-5A)	MARCH 1996		
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Dec-94	Dec-94 Dec-95	Dec-96
AMCCOM DRSMC Dec-94	AMCCOM DRSMC AMCCOM DRSMC	AMCCOM DRSMC Dec-96
MIPR	MIPR	MIPR
CAAA; CRANE, IN	CAAA; CRANE, IN CAAA; CRANE, IN	UNKNOWN
76MM BL+P C062 FY 1995	76MM HE IR CTG C060 FY 1995 FY 1996	76MM MFF-HE MFF2 FY 1997
AF001	AF002	AF013

NOTE: All items shown are priced with available GFM.



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Remarks

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FY 1997 BUDGET PRODUCTION SCHEDULE P-21

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PRODUCTION SCHEDULES DOE FY99 - FY2001 ARE ON THE FOLLOWING PAGE.

REMARKS

CLASSIFICATION: UNCLASSIFIED

ITEM NO.46 PAGE NO.

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Manufacturer's Name and Location

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Remarks

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WEAPONS PROCUREMENT NAVY	۲.		(A)	MARCH 1996	
BUDGET ILEM JUSTIFICATION SHEET	- IJ	(שווש מסח	(nt-		
	P-1 ITEM NOMENCLATURE OTHER SHIP GUN AMMUNIT	P-1 ITEM NOMENCLATURE OTHER SHIP GUN AMMUNITION	NO.		
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	4.1		9.6		

ITEM DESCRIPTION/JUSTIFICATION:

This program provides ammunition (20MM through 84MM cartridges and rockets) in support of active Navy ships, and for active and reserve ashore warfare forces including Mobile Construction Battalions (MCB), Amphibious Construction Battalion (ACB), Fleet Combat Readiness Groups, Inshore Undersea Warfare Groups, and several other type operational units.

PROCUREMENT: The funds are required to procure components, load and assemble complete rounds and conduct acceptance tests.

preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; PRODUCTION ENGINEERING: Funds requested provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; production configuration control; and other related engineering function which are integral to an item's manufacture. PRODUCT IMPROVEMENT: The requested funds provide engineering services and related effort by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications. newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced

* In FY 1995 and FY 1996, this program is funded in Procurement Ammunition, Navy and Marine Corps BA-1.

ITEM NO. 47 PAGE NO. 1 UNCLASSIFIED

EXHIBIT P-40 Budget Item Justification Sheet



UNCLASSIFIED CLASSIFICATION

NAVMAT FORM 7110.1	WEAPONS PROCUREMENT NAVY BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	MARCH 1996
BUDGET ACTIVITY 5 AMMUNITION	P-1 ITEM NOMENCLATURE OTHER SHIP GUN AMMUNIT	P-1 ITEM NOMENCLATURE OTHER SHIP GUN AMMUNITION	

RENOVATION COMPONENTS: The items purchased with funds identified for renovation components will be used to upgrade unserviceable rounds to ready-for-issue condition. The specific rounds to be renovated will be those with the lowest asset readiness positions. GAUGE: These funds are required to procure the gauges and test equipments necessary to check critical dimensions/parameters of ammunition items and their parts. This is to assure proper mating of parts and subassemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance.

All ammo procured with these funds is procured through the Conventional Ammunition Working Capital Fund (CAWCF) and the most recent CAWCF standard/non-standard price list has been used in pricing the ammo.



3 5 4	WEAPONS PROCUREMENT, NAVY	WEAPONS S	WEAPONS SYSTEM COST ANALYSIS	LYSIS	(DOD EXHIBIT P-5)		MARCH 1996	
BUDGET ACTIVITY 5 AMMUNITION	YTMTY	NARM CODE 527000	527000	P-1 ITEM NOMENCLATURE OTHER SHIP GUN AMMUNITION	ATURE		SUBHEAD NO.	
S		Ident.		FY 95		FY 96	FY 97	97
S S S	Element of Cost	\$	αту	Total Cost	γTρ	Total Cost	αту	Total Cost
AG002	25MM CARTRIDES			5579				
AG003	40MM CARTRIDGES (GRENADE)			438		316		234
AG005	60MM CARTRIDGES			8040		3862		3403
AG830	PRODUCTION ENGINEERING			495		795		356
AG850	PRODUCT IMPROVEMENT			121		\$		99
AG892	NON-STANDARD ITEMS			96		75		15
AG893	RENOVATION COMPONENTS			142		23		09
AG894	GAUGE REQUIREMENTS			122		89		25
	TOTAL			15033		6267		4133
	FY 95 & FY 96 THIS PROGRAM IS FUNDED IN PROCUREMENT AMMUNITION, NAVY & MARINE CORP BA-1	IN PROCURE	MENT AMMUNITIO	N, NAVY & MARINE C	ORP BA-1.			
			:					

ITEM NO. 47 PAGE NO. 3 UNCLASSIFIED

EXHIBIT P-5 Weapons System Cost Analysis

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NAVMAT FORM 7110.1	WEAPONS PROCUREMENT NAVY BUDGET ITEM JUSTIFICATION SHEE	IS PROCUREMENT NAVY TEM JUSTIFICATION SHEET	VY HEET	(DOD EXHIBIT P-40)	P-40)	MARCH 1996	
BUDGET ACTIVITY 5 AMMUNITION			P-1 ITEM NOMENCLATURE SMALL ARMS AND LANDING	P-1 ITEM NOMENCLATURE SMALL ARMS AND LANDING PARTY AMMUNITION	PARTY AMMUI	NOILIP	
	FY 95*	FY 96*	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY							
COST (In Millions \$)	14.1	5.7	3.1	8.0	8.3	8.5	9.3

ITEM DESCRIPTION/JUSTIFICATION:

Battalions (MCB), Amphibious Construction Battalion (ACB) and Fleet Combat Readiness Groups, Inshore Undersea Warfare Groups and several other This program provides ammunition in support of active Navy ships and for active and reserve ashore warfare forces including: Mobile Construction type operational units.

PROCUREMENT: The funds are required to procure components, load and assemble complete rounds and conduct acceptance tests.

preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; PRODUCTION ENGINEERING: Funds requested provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; production configuration control; and other related engineering function which are integral to an item's manufacture. PRODUCT IMPROVEMENT: The requested funds provide engineering services and related effort by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications. newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced

* In FY 1995 and FY 1996, this program is funded in Procurement Ammunition, Navy and Marine Corps BA-1.

ITEM NO. 48 PAGE NO. 1 UNCLASSIFIED

EXHIBIT P-40 Budget Item Justification Sheet



NAVMAT FORM 7110.1	WEAPONS PROCUREMENT NAVY BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	MARCH 1996
BUDGET ACTIVITY 5 AMMUNITION	P-1 ITEM NOMENCLATURE SMALL ARMS AND LANDING	P-1 ITEM NOMENCLATURE SMALL ARMS AND LANDING PARTY AMMUNITION	IITION

RENOVATION COMPONENTS: The items purchased with funds identified for renovation components will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions. GAUGE: These funds are required to procure the gauges and test equipments necessary to check critical dimensions/parameters of ammunition items and their parts. This is to assure proper mating of parts and subassemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance.

NON-STANDARD ITEMS: The non-standard line is to support procurement of ammunition training aids and initial procurements of required non type classified munition items.

All ammo procured with these funds is procured through the Conventional Ammunition Working Capital Fund (CAWCF) and the most recent CAWCF standard/non-standard price list has been used in pricing the ammo.



APPROPRIATION WEAPONS PRO	CUREMENT, NAVY	WEAPONS SY	WEAPONS SYSTEM COST ANALYSIS		(DOD EXHIBIT P5)		MARCH 1996	
BUDGET ACTIVITY 5 AMMUNITION	TIVITY	NARM CODE 533500	533500	P-1 ITEM NOMENCLATURE SMALL ARMS AND LANDING	P-1 ITEM NOMENCLATURE SMALL ARMS AND LANDING PARTY AMMUNITION		SUBHEAD NO. 85AH	
Çost		Ident.		FY 95	FY 96	98	FY 97	97
စီ ပ	Element of Cost	e Code	ΔПУ	Total Cost	ατγ	Total Cost	αTY	Total Cost
AH100	SHOTGUN CARTRIDGES			1				
AH150	GRENADES/MINES					24		
AH200	5.56MM CARTRIDGES					2351		
AH350	MATCH AMMO			230		212		219
AH400	7.62MM CARTRIDGES				,	692		363
AH500	9MM CARTRIDGES			3026		1540		1438
AH700	.45 CAL CARTRIDGES			2100		101		42
AH800	.50 CAL CARTRIDGES			8277		128		478
AH830	PRODUCTION ENGINEERING			169		275		288
AH850	PRODUCT IMPROVEMENT			186		103		106
AH892	NON-STANDARD ITEMS			98		105		109
AH893	RENOVATION COMPONENTS					81		83
	TOTAL			14075		5695		3126
	* FY 95 & FY 96 THIS PROGRAM IS FUNDED IN PROCUREMENT AMMUNITION, NAVY & MARINE CORP BA-1	IN PROCURE	MENT AMMUNITIO	N, NAVY & MARINE C	ORP BA-1.			
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P-1 SHOPPING LIST

EXHIBIT P-5 Weapons System Cost Analysis



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NAVMAT FORM 7110.1 BUDGET	r item just	ITEM JUSTIFICATION SHEET	,	(DOD EXHIBIT P-40)	940)	MARCH 1996	
BUDGET ACTIVITY 5 AMMUNITION			P-1 ITEM NOMENCLATURE PYROTECHNICS AND DEMOLITION MATERIAL	ENCLATURE SS AND DEMOL	ITION MATERI	AL.	
	FY 95*	FY 96*	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY							
lillions \$)	15.4	11.0	10.1	10.6	17.7	14.6	16.1

TEM DESCRIPTION/JUSTIFICATION:

Salvage Units, Cargo Handling and Port Groups, Naval Security Groups, Fleet Composite Operational Readiness Groups (formerly Beachjumper Unit (BJU's)) and Explosive Ordnance Disposal Groups/Mobile Units/Detachments/Teams. This program also provides materials to support the Ship Shock Test Program. This program provides pyrotechnics and demolition materials for all active Naval Vessels, Amphibious and Mobile Construction Battalions, Mobile Diving and

and operations/requirements. Fleet requirements are based upon CNO approved allowance lists for special needs on a case by case basis and worldwide fleet personnel search and rescue operations. Demolitions consist of explosive devices and accessories and are required for fleet units to perform training functions Pyrotechnics are required to support the surface, air, ground, and underwater Navy requirements. These items consist of illumination, signalling, identification, and location devices using flare or smoke as the primary signalling agent. Pyrotechnics are used for training, combat exercises, submarine rescue and expenditure.

PROCUREMENT: The funds are required to procure components, load and assemble complete rounds and conduct acceptance tests.

preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; PRODUCTION ENGINEERING: Funds requested provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; production configuration control; and other related engineering function which are integral to an item's manufacture.

In FY 1995 and FY 1996, this program is funded in Procurement Ammunition, Navy and Marine Corps BA-1.

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EXHIBIT P-40 Budget Item Justification Sheet



NAVMAT FORM 7110.1	WEAPONS PROCUREMENT NAVY BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	MARCH 1996
	MOINTER	TAILUE	
BUDGET ACTIVITY 5 AMMUNITION	PYROTECHNICS AND DEMC	PYROTECHNICS AND DEMOLITION MATERIAL	IAL

installation. To extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, PRODUCT IMPROVEMENT: The requested funds provide engineering services and related efforts by the producing contractor of manufacturing specifications.

RENOVATION COMPONENTS: The items purchased with funds identified for renovation components will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions.

GAUGE: These funds are required to procure the gauges and test equipments necessary to check critical dimensions/parameters of ammunition items and their parts. This is to assure proper mating of parts and subassemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance.

NON-STANDARD ITEMS: The non-standard line is to support procurement of ammunition training aids and initial procurements of required non type classified munition items.

All ammo procured with these funds is procured through the Conventional Ammunition Working Capital Fund (CAWCF) and the most recent CAWCF standard/non-standard price list has been used in pricing the ammo.

MARCH 1996	Cid Carried to	SOBREADING.	200	78.1.1	Total Cost QTY total Cost	701	226	3061	7849 2924	330	143			730	223 237	90 20	200	11022								
(DOD EXHIBIT P-5)		ICLATURE	PTROIECTINGS AND DEMOLITION	ΕΥ 98	αTY	1500	57	312	6138	3778	166	339	778	1745	263	51	266	15393		E CORP BA:1						
		P-1 ITEM NOMENCLATURE	PTROIECHINGS	FY 95	Total Cost	15/		3	19	37	1	3	7	11	2		2	153		N PROCUREMENT AMMUNITION, NAVY & MARINE CORP BA:1						
				١	αTγ															EMENT AMMUNITION						
			NARM CODE 534000	Ident.	င်ဝ ရိ																					
PPROPRIATION WEAPONS PROCUREMENT, NAVY		TMITY	NOI		Element of Cost	SIGNALS	TRAINING DEVICES	MINE, CHGS, AND CHG CONTAINERS	DET CORD, CAPS, AND FUZES	CUTTERS AND CARTRIDGES	SHOCK TEST CHG	OTHER PYRO AND DEMO ITEMS	PRODUCTION ENGINEERING	PRODUCT IMPROVEMENT	RENOVATION	GAUGE	NON-STANDARD ITEMS	TOFAL		FY 95 & FY 96 THIS PROGRAM IS FUNDED						
APPROPRIATION WEAPONS PRO		BUDGET ACTIVITY	5 AMMUNITION	Cost	Code	AJ100	AJ200	AJ300	AJ500	97900	AJ700	AJ800	AJ830	A.1850	A.1893	AJ894	A.1895									

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EXHIBIT P-5 Weapons System Cost Analysis

P-1 SHOPPING LIST

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		BUDGET ITE	BUDGET ITEM JUSTIFICATION SHEET	ICATION SHEET			DATE:	
		P-40					MARCH 96	
APPROPRIATION/BUDGET ACTIVITY	r ACTIVITY				P-1 ITEM NOMENCLATURE	ICLATURE		
WEAPONS PROCUREMENT, NAVY/ BA-5: AMMUNITION	MENT, NAVY/				MINE NEUTR	MINE NEUTRALIZATION DEVICES (75U4)	ICES (75U4)	
	1995*	1996*	1997	1998	1999	2000	2001	
QUANTITY								
COST (In Millions)	\$3.5	\$0.8	\$5.8	\$6.2	\$8.1	\$9.1	\$9.3	
ITEM DESCRIPTION/JUSTIFICATION:	TIFICATION:							

ITEM

Mine Neutralization Devices are utilized in conjunction with minehunting systems to destroy mines that cannot be countered by normal minesweeping techniques. Once the mine is physically located, an explosive charge is placed in close proximity to neutralize the mine.

and MHC class ships. The Mine Neutralization Vehicle can drop a Mk 57 destructor charge (MP-2) near a bottom mine to neutralize it. The vehicle is also The Mine Neutralization System (MNS) was granted Approval for Full Rate Production in August 1991. The MNS is the primary weapon system for the MCM capable of attaching a Mk 26 Cable Cutter (MP-1) to a Moored Mine.

Development of a Moored Mine Neutralization Charge (MP-3) is underway with the production of hardware scheduled to begin in FY 1997.

Note: *In FY95 and FY96, this program is funded in Procurement Ammunition, Navy and Marine Corps (PAN&MC).

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		WEAPOI P-5	V SYST	WEAPON SYSTEM COST ANALYSIS EXHIBIT	-YSIS	EXHIBIT			MARCH 96
APPROF	APPROPRIATION/BUDGET ACTIVITY	2		P-1 ITEM NOMENCLATURE/SUBHEAD	LATUR	E/SUBHEAD			
WEAPC	WEAPONS PROCUREMEN!, NAVY/ BA-5: AMMUNITION			MINE NEUTRALIZATION DEVICES (75U4)	\LIZA	TION DEVICE	S (75	U4)	
					TOTAL	TOTAL COST IN THOUSANDS OF DOLLARS	ANDS (OF DOLLARS	
COST	ELEMENT OF COST	IDENT		FY 1995		FY 1996		FY 1997	
CODE		CODE	αту	TOTAL COST	QTY	TOTAL COST	αту	TOTAL COST	
	MINE WARFARE, N852								
U4002	EXPLOSIVE LOADING			425		0		383	
04005	MK 57 BOMBLET	∢	136	2,105		0	109	1,799	
U4007	MP-3 DEVICE *	∢		0		0	184*	2,300	,
U4830	PRODUCTION ENGINEERING			532		455		618	
U4840	QUALITY ASSURANCE			34		30		09	
U4860	ACCEPTANCE TEST & EVALUATION			425		288		680	
	TOTAL	,		3,521		773		5,840	
	* Kits will be procured to convert existing MP-1/MP-2 assets into MP-3 assets.								
DD FOR	DD FORM 2446, JUN 86	P-1 SHOPPING LIST	PPING	LIST				CLASSIFICATION:	

P-1 SHOPPING LIST ITEM NO. 50 PAGE NO. 2

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			BUDGET PR	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	TORY AN	D PLANNIN	IG EXHIBIT			DATE		
				P-5A						MARCH 96	9	
APPROPRIA WEAPON	REPROPRIATION/BUDGET ACTIVITY WEAPONS PROCUREMENT, NAVY/BA-5: AMMUNITION	Y/BA-5: AMMUNITION			P-1 ITEM NOMENCLATURE	ENCLATURE			SUBHEAD			
					MINE NEU	TRALIZAT	MINE NEUTRALIZATION DEVICES		7504			
COST	LINE ITEM	CONTRACTOR	CONTRACT	CONTRACTED	AWARD	DATE OF FIRST	QUANTITY	TIND	SPECS	SPEC REV	IF YES WHEN	
CODE	FISCAL YEAR	AND LOCATION	& TYPE	₽₽	DATE	DELIVERY		(000)	MON	REQ'D	AVAILABLE	
14005	MK 57 BOMBLET FY 1995	TOI O INCORPORATED	NCITAC	NSWC IHDIV	05/95	*96/20	136	15.5	YES	Ç		
} } !	-	SANTA ANA, CA	5			})	2))		
	MK 57 BOMBLET	•			!							
U4005	FY 1997	180	C/FFP	NSWC IHDIV	03/97	04/98*	109	16.5	YES	<u></u>		
	MP 3 DEVICE											
U4007	FY 1997	TBD	C/FFP	NAVSEA	12/96	86/9	184	12.5	2	YES	10/96	
DEMADE												
KEMAKKS											***************************************	

Delivery dates shown are for complete Destructor Mk 57. Final delivery includes successful completion of lot

acceptance testing, explosive loading of cases and production of Firing Devices Mk 35 by NSWC, Indian

Head Division.

DD Form 2446, JUL 87

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FY 1996/1997 BUDGET PRODUCTION SCHEDULE

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85 \$ MARCH 96 FISCAL YEAR 7604 1967 FISCAL YEAR TOTAL LOCT 2 ACTURING NETER 967 MA AP MY 1996 MINE NEUTRALIZATION DEVICES 8 FISCAL YEAR REORDER (PREVIOUS SOURCE) 1 ITEM NOMENCLATURE INITIAL PRODUCTION SCHEDULE
MIN 1-8-5 MAXIMUM REACHED
RATE D+ DUE DUE AS OF 1 OCT 2 ACCEPT PRIOR TO 1 OCT 181 PROC QTY TEMMANUFACTUREN
PROCUREMENT YEAR MISSION PACKAGE 3 APPROPRIATION/BUDGET ACTIVITY APN BA-6: AMMUNITION FY 1997 MANUFACTURER'S NAME AND LOCATION COST 14007

A -CONTRACT AWARD FA-FIRST ARTICLE R . PROCUREMENT REQUEST RELEASE

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NAVMAT FORM 7110/4 (REVISED 11/77)

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APPROPRI	APPROPRIATION/BUDGET ACTIVITY					<u>a</u>	P-1 ITEM NOMENCLATURE	OME	ICLAT	J.E.																SUB	SUBHEAD:	L .			DATE				
WPN / BA-5	WPN/BA-5 AMMUNITION						M	MEU	MINE NEUTRALIZAT	ATIO	TON DEVICES	CES														7504	_				MAR	MARCH 1996	•		
COST	ITEM/MANUFACTURER/	ωш	PROC	ACCEPT	BAL				Œ	SCAL	FISCAL YEAR 1999	666							E	FISCAL YEAR 2000	AR 20	90							뜐	FISCAL YEAR 2001	EAR 2	9			
3000	PROCUREMENT YEAR	œ	QTY				1998	П		CAL	ENDER	CALENDER YEAR 1999	1998					L		CALE	CALENDAR YEAR 2000	YEAR :	2000					H		CALE	ENDAR	CALENDAR YEAR 2001	2007		T
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U4007	MISSION PACKAGE 3	F				-	L	L	+	L		╁	+	L			╀	1	Ţ		T	+	+	\prod		İ	\dagger	╁	\downarrow	I	\dagger	\downarrow	İ	T	+
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REORDER			6.	6	

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MANAFACTURER'S NAME AND LOCATION TBD AF013 · UNKNOWN ITEM NO. 50 PAGE NO. 5

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REMARKS

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